

The Poetics of Glaze
Ceramic Surface and the Perception of
Depth

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Appendix II - Cobblestones
Technical Notes and Recipes

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Art for the degree of Doctor of
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CATALOGUE OF GLAZES

Kolding	1
• TKWT 50	5
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○ Neutral – Cobblestone Nr. 79	24
• NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO ₃ 0.25 CrO	27
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• NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO ₃ no chrome	51
○ Neutral – Cobblestone Nr. 109	52
• NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO ₃ no cobalt	53
○ Neutral – Cobblestone Nr. 107	54
• NSD 07/04/2 1 Fe 0.5 CoCO ₃ 0.25 CrO no titanium	57
○ Neutral – Cobblestone Nr. 83	58
• NSD 07/04/2 5 Ti 0.5 CoCO ₃ 0.25 CrO no iron	59
○ Neutral – Cobblestone Nr. 137	60
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○ Neutral – Cobblestones Nr. 72, 88	83
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○ Neutral – Cobblestones Nr. 96, 155	91
• TNSCB 16 – 5 Ti 7 Fe	99
○ Neutral – Cobblestones Nr. 6, 35	101
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○ Reduction – Cobblestones Nr. 4, 29, 47, 100	183
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○ Neutral – Cobblestone Nr. 142	188
• CA 17	191
○ Neutral – Cobblestones Nr. 21, 86	193

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○ Reduction – Cobblestones Nr. 15, 53, 192	199
○ Neutral – Cobblestone Nr. 52	204
• CA 21 + CA 22	211
○ Neutral – Cobblestone Nr. 103	213
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○ Neutral – Cobblestone Nr. 167	218
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• Sam's red no rutile	409
○ Reduction – Cobblestone Nr. 31	412
○ Neutral – Cobblestone Nr. 169	414
• Sam's red no iron	417
○ Reduction – Cobblestone Nr. 91	420
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○ Reduction – Cobblestone Nr. 140	428
○ Double reduction – Cobblestone Nr. 80	430
○ Neutral – Cobblestone Nr. 10	433
• Sam's red no lithium	435
○ Reduction – Cobblestone Nr. 152	437
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• Unknown glaze – Cobblestone Nr. 125	491

Table of Cobblestones (1-200)

Elec.: Electricity kiln firing (neutral)

Gas: Gas firing (all types of reduction firings)

N: neutral firing

Nr.	Glaze's name	Category	Kiln type	Page
1	Sam's red	Copper reds	Gas	388
2	TKWT 50 2 Fe	Celadons	Gas	368
3	221	Celadons	Gas	232
4	CA 13	Carriès	Gas	183
5	CA 4 + CA 18	Carriès	Elec.	155
6	TNSCB 16 – 5 Ti 7 Fe	Kolding	Elec.	101
7	FFB 08/2 9 MnO2	Kolding	Elec.	139
8	221	Celadons	Gas	232
9	Sam's red no iron	Copper reds	Elec.	423
10	Sam's red no tin	Copper reds	Elec.	433
11	275	Celadons	Gas	345
12	231	Celadons	Gas	251
13	233	Celadons	Gas	266
14	CA 4 + CA 17	Carriès	Elec.	150
15	CA 21	Carriès	Gas	199
16	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO	Kolding	Elec.	30
17	286	Celadons	Gas	363
18	243	Celadons	Gas	321
19	221	Celadons	Gas	232
20	TKWT 50	Kolding	Elec.	7
21	CA 17	Carriès	Elec.	193
22	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	116
23	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO	Kolding	Elec.	33
24	Sam's red	Copper reds	Gas	397
25	221	Celadons	Gas	232
26	244	Celadons	Gas	324
27	TNSCB 16 – 5 Ti 10 Fe	Kolding	Elec.	112
28	CA 23 + CA 17	Carriès	Elec.	223
29	CA 13	Carriès	Gas	186
30	Sam's red	Copper reds	Gas	399
31	Sam's red no rutile	Copper reds	Gas	412
32	235	Celadons	Gas	275
33	222	Celadons	Gas	246
34	Unknown red	Copper reds	Gas	445
35	TNSCB 16 – 5 Ti 7 Fe	Kolding	Elec.	103
36	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	118
37	CA 4 + CA 23	Carriès	Elec.	168
38	TNSCB 16 – 3 Fe	Kolding	Elec.	75
39	70	Other glazes	Gas	471
40	233	Celadons	Gas	264
41	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	120
42	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO	Kolding	Elec.	35
43	NSD 07/3 3Ti 3Cr	Kolding	Elec.	17
44	TNSCB 16 – 3 Fe	Kolding	Elec.	78
45	283	Celadons	Gas	354
46	221	Celadons	Gas	232
47	CA 13	Carriès	Gas	185
48	275	Celadons	Gas	345
49	TNSCB 16 – 5 Ru 5 Fe	Kolding	Elec.	131
50	275	Celadons	Gas	342

51	283	Celadons	Gas	
52	CA 21	Carriès	Elec.	208
53	CA 21	Carriès	Gas	201
54	Derek Emm's red	Copper reds	Gas	375
55	Derek Emm's red	Copper reds	Gas	377
56	243	Celadons	Gas	321
57	NSD 07/3 3Ti 3Cr	Kolding	Elec.	20
58	221	Celadons	Gas	232
59	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO – new	Kolding	Elec.	64
60	CA 4 + unknown glaze CA ?1	Carriès	Elec.	144
61	CA 21	Carriès	Gas	204
62	TKWT 50	Kolding	Elec.	7
63	Takato's blue	Other glazes	Elec.	480
64	CA 4 + CA 23	Carriès	Elec.	170
65	TNSCB 16 – 5 Ru 5 Fe	Kolding	Elec.	133
66	Sam's red no iron	Copper reds	Gas	421
67	221	Celadons	Gas	232
68	NSD 07/3 3Ti 3Cr	Kolding	Elec.	21
69-1	221	Celadons	Gas	238
69-2	Derek Emm's red	Copper reds	Gas	380
70	70	Other glazes	Elec.	465
71	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	122
72	TNSCB 16 – 7 Fe	Kolding	Elec.	83
73	70 + 1% CuO	Other glazes	Elec.	474
74	CA 22	Carriès	Elec.	216
75	TNSCB 16 – 5 Ru 5 Fe	Kolding	Elec.	135
76	238	Celadons	Gas	288
77	Signe's red	Other glazes	Elec.	488
78	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	123
79	NSD 07/03/4 1 Fe	Kolding	Elec.	24
80	Sam's red no tin	Copper reds	Gas	430
81	Unknown glaze CA ?1	Carriès	Elec.	225
82	283	Celadons	Gas	357
83	NSD 07/04/2 1 Fe 0.5 CoCO3 0.25 CrO no titanium	Kolding	Elec.	58
84	222	Celadons	Gas	246
85	283	Celadons	Gas	352
86	CA 17	Carriès	Elec.	195
87	Unknown glaze CA ?1 + CA 4	Carriès	Elec.	227
88	TNSCB 16 – 7 Fe	Kolding	Elec.	86
89	222	Celadons	Gas	244
90	240	Celadons	Gas	298
91	Sam's red no iron	Copper reds	Gas	420
92	201 + 0.15% Fe	Fish Scale	Gas	457
93	221	Celadons	Gas (N)	235
94	248	Celadons	Gas	332
95	201 + 0.15% Fe	Fish Scale	Gas	461
96	TNSCB 16 – 3 Ti 3 Fe	Kolding	Elec.	91
97	275	Celadons	Gas (N)	347
98	221	Celadons	Gas (N)	236
99	236	Celadons	Gas	282
100	CA 13	Carriès	Gas	182
101	70	Other glazes	Gas	471
102	283	Celadons	Gas	358
103	CA 21 + CA 22	Carriès	Elec.	213
104	221	Celadons	Gas	239
105	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO	Kolding	Elec.	37
106	232	Celadons	Gas	258
107	NSD 07/04/2 5 Ti 1 Fe 0.25 CrO no cobalt	Kolding	Elec.	54
108	246	Celadons	Gas	328
109	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 no chrome	Kolding	Elec.	52

110	Sam's red 5 Cu	Copper reds	Gas	383
111	Derek Emm's red	Copper reds	Gas	374
112	238	Celadons	Gas	287
113	243	Celadons	Gas	322
114	CA 4 + CA 22	Carriès	Elec.	163
115	201 + 0.15% Fe	Fish Scale	Gas	458
116	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO	Kolding	Elec.	41
117	222	Celadons	Gas	246
118	TNSCB 16 – 3 Ti	Kolding	Elec.	71
119	275	Celadons	Gas	344
120	70	Other glazes	Elec.	465
121	242	Celadons	Gas	313
122	275	Celadons	Gas	344
123	231	Celadons	Gas	253
124	Sam's red with own materials	Copper reds	Elec.	404
125	Unknown glaze	Other glazes	Elec.	491
126	Sam's red	Copper reds	Gas	390
127	283	Celadons	Gas	359
128	201	Fish Scale	Elec.	449
129	CA 4 + CA 21	Carriès	Elec.	159
130	TNSCB 16 – 5 Ti 7 Fe	Kolding	Gas	105
131	201	Fish Scale	Elec.	451
132	CA 4 + CA 17	Carriès	Elec.	152
133	264	Celadons	Gas	336
134	234	Celadons	Gas	270
135	70	Other glazes	Elec.	467
136	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	124
137	NSD 07/04/2 5 Ti 0.5 CoCO3 0.25 CrO no iron	Kolding	Elec.	60
138	CA 13	Carriès	Elec.	181
139	TKWT 50 1 Fe	Celadons	Gas	367
140	Sam's red no tin	Copper reds	Gas	428
141	TKWT 50	Kolding	Elec.	8
142	CA 13 + CA 4	Carriès	Elec.	188
143	241	Celadons	Gas	304
144	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO3 0.25 CrO	Kolding	Elec.	43
145	Sam's red	Copper reds	Gas	388
146	Sam's red no bone ash	Copper reds	Gas	441
147	286	Celadons	Gas	363
148	242	Celadons	Gas	313
149	275	Celadons	Gas	342
150	CA 7 + CA 4	Carriès	Elec.	176
151	Derek Emm's red	Copper reds	Gas	371
152	Sam's red no lithium	Copper reds	Gas	437
153	221	Celadons	Gas	234
154	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	125
155	TNSCB 16 – 3 Ti 3 Fe	Kolding	Elec.	94
156	70	Other glazes	Elec.	469
157	Derek Emm's red	Copper reds	Gas	372
158	Sam's red	Copper reds	Gas	393
159	243	Celadons	Gas	322
160	231	Celadons	Gas	254
161	238	Celadons	Gas	291
162	Sam's red with own materials	Copper reds	Gas	406
163	283	Celadons	Gas (N)	356
164	241	Celadons	Gas	305
165	242	Celadons	Gas	314
166	221	Celadons	Gas	232
167	CA 23	Carriès	Elec.	218
168	TNSCB 16 – 5 Ti 10 Fe	Kolding	Elec.	114
169	Sam's red no rutile	Copper reds	Elec.	414

170	Sam's red	Copper reds	Gas	395
171	Signe's black	Other glazes	Elec.	485
172	TNSCB 16 – 3 Ti	Kolding	Elec.	72
173	70	Other glazes	Elec.	470
174	235	Celadons	Gas	279
175	242	Celadons	Gas	316
176	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO ₃ 0.25 CrO	Kolding	Elec.	44
177	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO ₃ 0.25 CrO	Kolding	Elec.	46
178	NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO ₃ 0.25 CrO	Kolding	Elec.	49
179	TKWT 50	Kolding	Elec.	10
180	TKWT 50	Kolding	Elec.	12
181-1	Signe's red	Other glazes	Elec.	489
181-2	Derek Emm's red	Copper reds	Gas	379
182	222	Celadons	Gas (N)	245
183	222	Celadons	Gas (N)	245
184	222	Celadons	Gas (N)	245
185	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	128
186	Signe's black	Other glazes	Elec.	483
187	FFB 08/2 9 MnO ₂	Kolding	Elec.	141
188	FFB 08/2 9 MnO ₂	Kolding	Elec.	142
189	TKWT 50	Kolding	Gas	13
190	201	Fish Scale	Elec.	454
191	201 + 0.15% Fe	Fish Scale	Gas	460
192	CA 21	Carriès	Gas	206
193	233	Celadons	Gas	266
194	233	Celadons	Gas	266
195	241	Celadons	Gas	307
196	241	Celadons	Gas	309
197	235	Celadons	Gas	277
198	239	Celadons	Gas	294
199	Sam's red	Copper reds	Gas	400
200	TNSCB 16 – 5 Ti 10 Fe	Kolding	Gas	127

KOLDING GLAZES

Recreating Kolding glazes

Kolding glazes can be reproduced easily with the materials available to the potter, but it is necessary to have a detailed chemical analysis of the materials used.

FFB 08/3 involves the potassium sodium feldspar 'Forshammer feldspar' used in Kolding, and barium carbonate. Many glaze recipes use China clay (to bring alumina and silica) and flint or quartz to add silica. The chemical analysis for these different materials are given in the tables below:

Forshammer feldspar

	%	Molecular weight	Moles	Sege
SiO ₂	75.6	60.1	1.258	9.76 (=1.258/0.1288)
Al ₂ O ₃	14.9	102	0.142	1.1 (=1.1/0.1288)
Fe ₂ O ₃	0.13	159.7		
CaO	2.06	56.1	0.0035	1 (=0.0035/0.1288
MgO	0.2	40.3	0.005	+ 0.005/0.1288 +
Na ₂ O	4.7	62	0.0758	0.0758/0.1288 +
K ₂ O	4.2	94.2	0.0445	0.0445/0.1288)
TOTAL	99.54		Total alkalis: 0.1288	Molecular weight: 772.8 (=99.54/0.1288)

Barium carbonate

	%	Molecular weight	Moles	Sejer
Lol	22.2	-	-	
BaO	77.8	153.3	0.5	1
TOTAL	100		Total alkalis: 0.5	Molecular weight: 200 (=100/0.5)

China clay (Kaolin Beauvoir)

	%	Molecular weight	Moles	Sejer
Lol	9	-	-	
SiO ₂	48.1	60.1	0.8003	2.21 (=0.8003/0.3617)
Al ₂ O ₃	36.9	102	0.3617	1
Fe ₂ O ₃	0.26	159.7		
CaO	0.2	56.1	0.0035	
MgO	0.17	40.3	0.0042	
Na ₂ O	0.2	94.2	0.0032	
K ₂ O	1.9	62	0.0201	
Li ₂ O	0.27	29.9	0.009	
TOTAL	97.05		Total alkalis: 0.04	Molecular weight: 268 (=97.05/0.3617)

Silica

	%	Molecular weight	Moles	Sege
SiO ₂	99.5	60.1	1.65	1
TOTAL	99.5		Total: 1.65	Molecular weight: 60 (=99.5/1.65)

The calculation of the glaze recipe matches the requirements of the glaze name:

- 0.8 alkalis to be brought in by barium carbonate (implying 0.2 are brought in by the feldspar)
- 3 silica
- 0.3 alumina

FFB 08/3

	Material	Alkalis	Al ₂ O ₃	SiO ₂	Total	Total 100
Seger	Forshammer feldspar	1	1.1	9.76		
0.2	772.8	0.2	0.22	1.95	155	39.9
Seger	Barium carbonate	1				
0.8	200	0.8			160	41.2
Seger	China clay		1	2.2		
0.08	268		0.08	0.18	21.4	5.5
Seger	Silica			1		
0.87	60			0.87	52.2	13.4
		1	0.3	3	388.6	100

Glaze TKWT 50

Cobblestones Nr. 20, 62, 141, 179, 180, 189

Recipe

Material	Source	Quantity
China clay	Boos (Kaolin Beauvoir BIP)	25
Wollastonite	RCA	25
Talc	Boos (Luzenac)	20
Silica	Boos (SMill E400)	20
Potassium feldspar	Boos (Fall)	10
TOTAL		100.0

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3
Formula	0.52	0.42	0.05	0.01	0.01	0.29	2.71	0
%	11.92	6.90	1.97	0.18	0.07	12.02	66.62	0.32

Molecular weight: 247

Firings

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric	1263	8h40	150°C/h	Cone 8 (1263°C)

Nr 12				
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Weak reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1260-1280°C

Description:

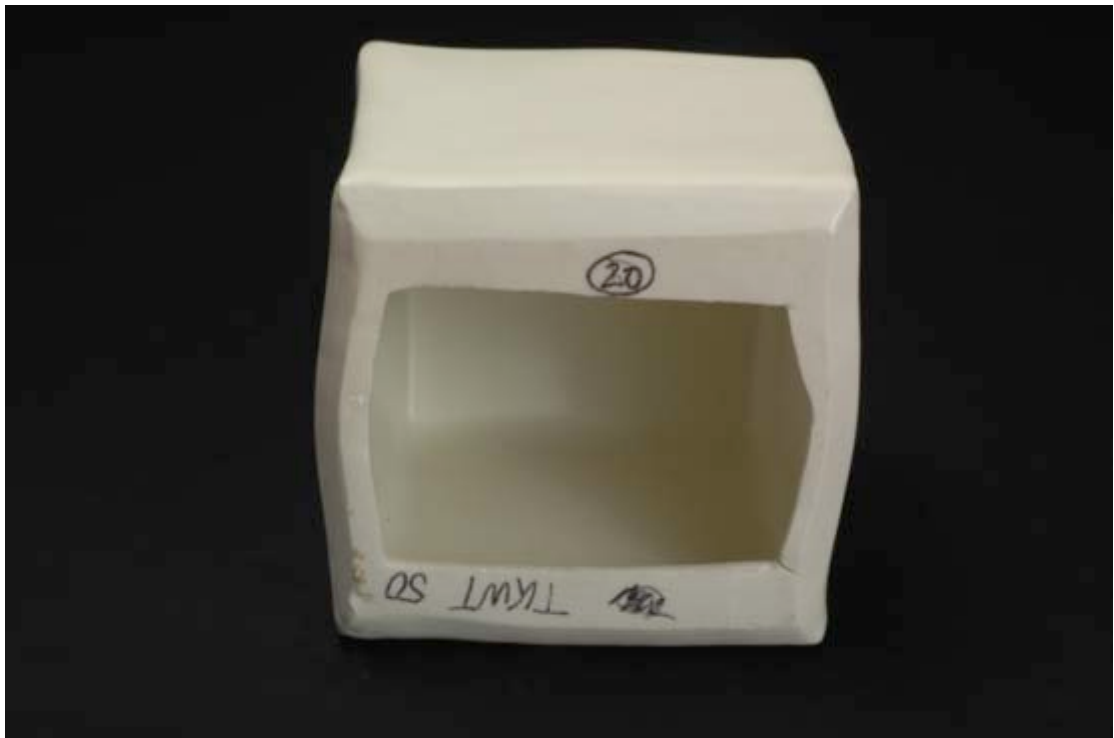
- White monochrome glaze
- Matt
- Slightly rough (dry) surface
- Subtle textured film over glaze
- Clear sound (no body cracks)
- Sense of volume rather than sense of surface



TKWT 50



TKWT 50, neutral firing, Cobblestone Nr. 20



TKWT 50, neutral firing, Cobblestone Nr. 20



TKWT 50, neutral firing, Cobblestone Nr. 141



TKWT 50, neutral firing, Cobblestone Nr. 141



TKWT 50, neutral firing, Cobblestone no Nr.



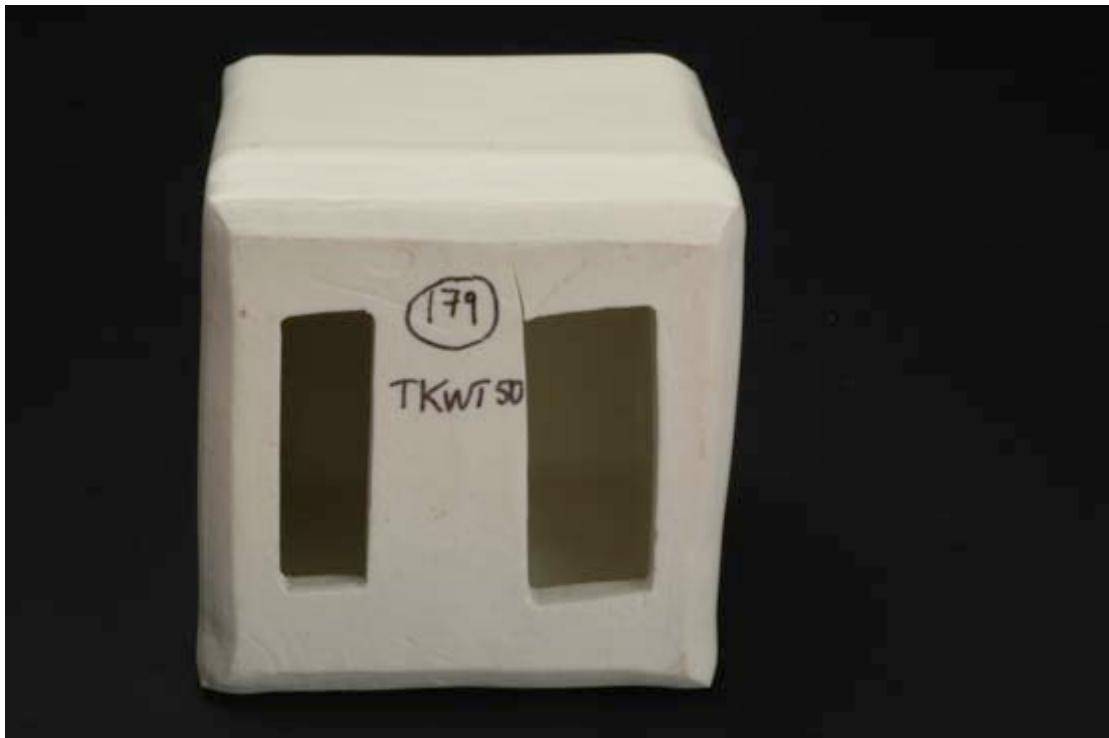
TKWT 50, neutral firing, Cobblestone Nr. 179



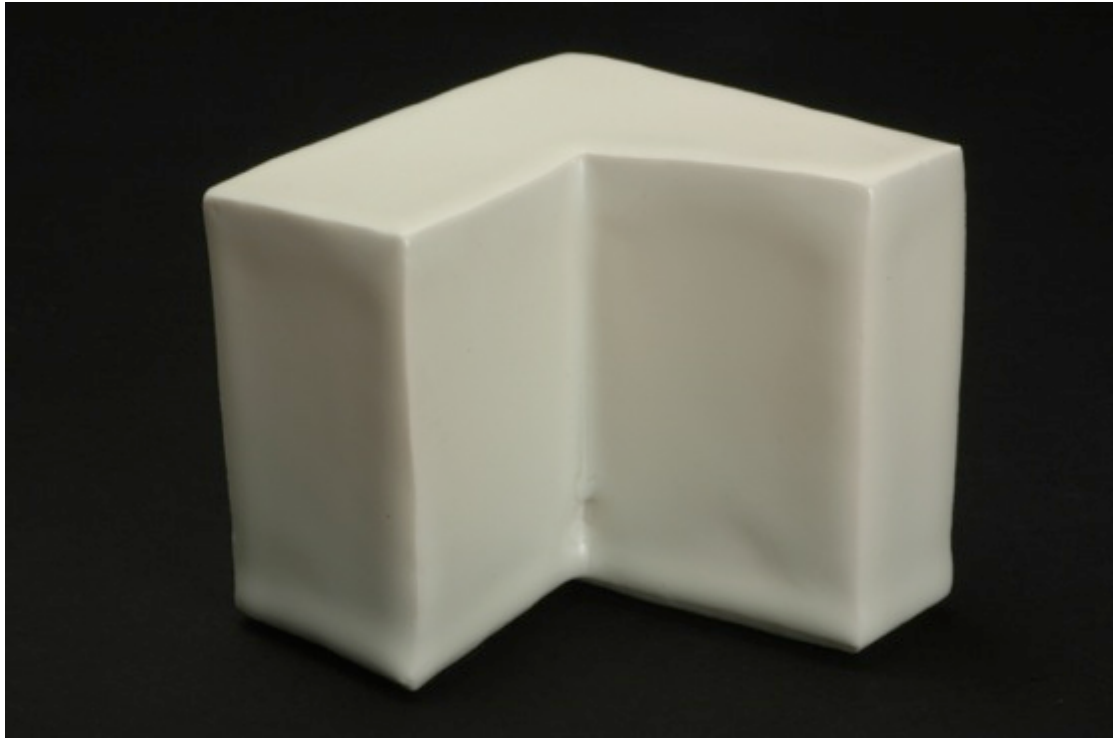
TKWT 50, neutral firing, Cobblestone Nr. 179



TKWT 50, neutral firing, Cobblestone Nr. 179



TKWT 50, neutral firing, Cobblestone Nr. 179



TKWT 50, neutral firing, Cobblestone Nr. 180



TKWT 50, neutral firing, Cobblestone Nr. 180



TKWT 50, weak reduction firing, Cobblestone Nr. 189



TKWT 50, weak reduction firing, Cobblestone Nr. 189



TKWT 50, weak reduction firing, Cobblestone Nr. 189



TKWT 50, weak reduction firing, Cobblestone Nr. 189

NSD 07/3 3 Ti 3 Cr
Cobblestones Nr. 43, 57, 68

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	36.3
Dolomite	Boos (DRB 20)	35.6
Silica	Boos (SMill E400)	28
TOTAL		100.0
Titanium oxide	RCA	3
Chrome oxide	RCA	3

Molecular formula

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.43	0.40	0.04	0.13	0.18	1.77	0.00
%	13.76	9.14	2.11	4.39	10.32	60.23	0.05

Molecular weight: 214

Firing

Neutral

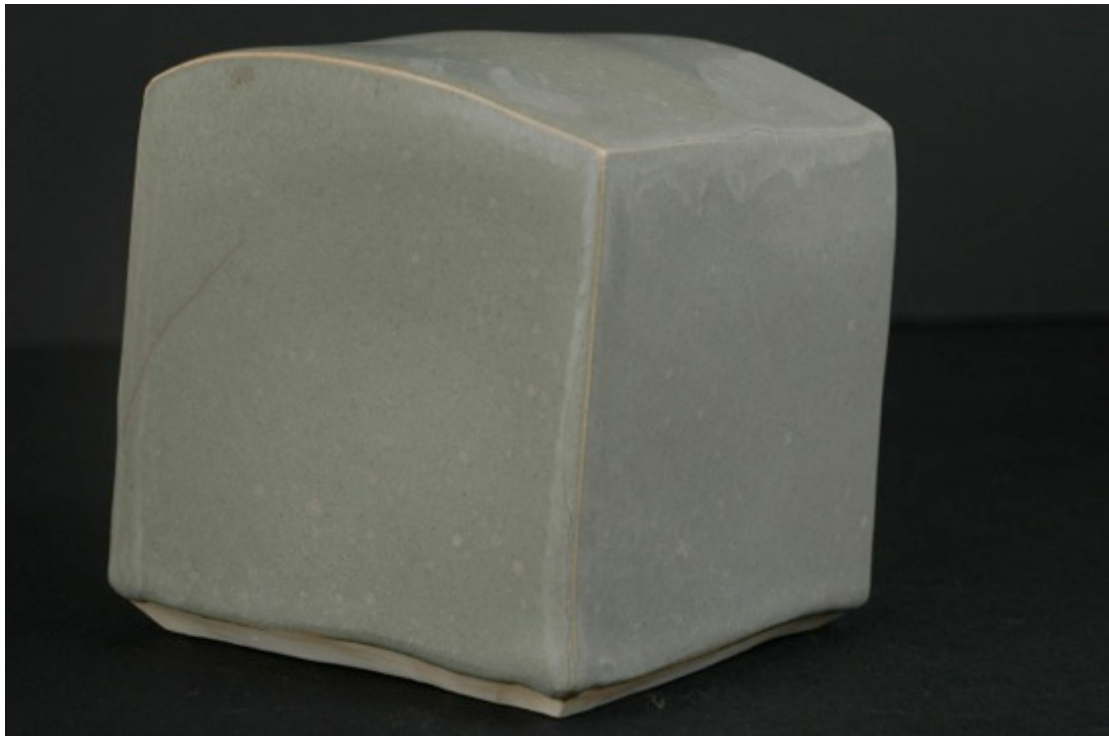
Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)



NSD 07/3 3Ti 3Cr



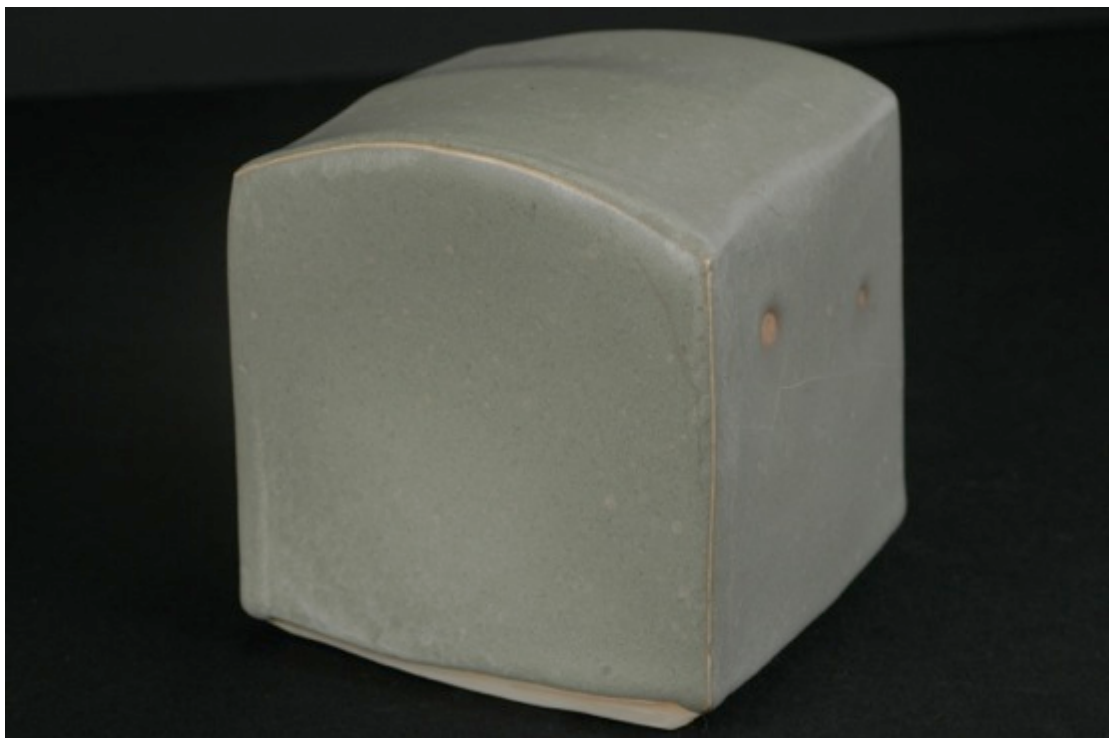
NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 43



NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 43



NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 43



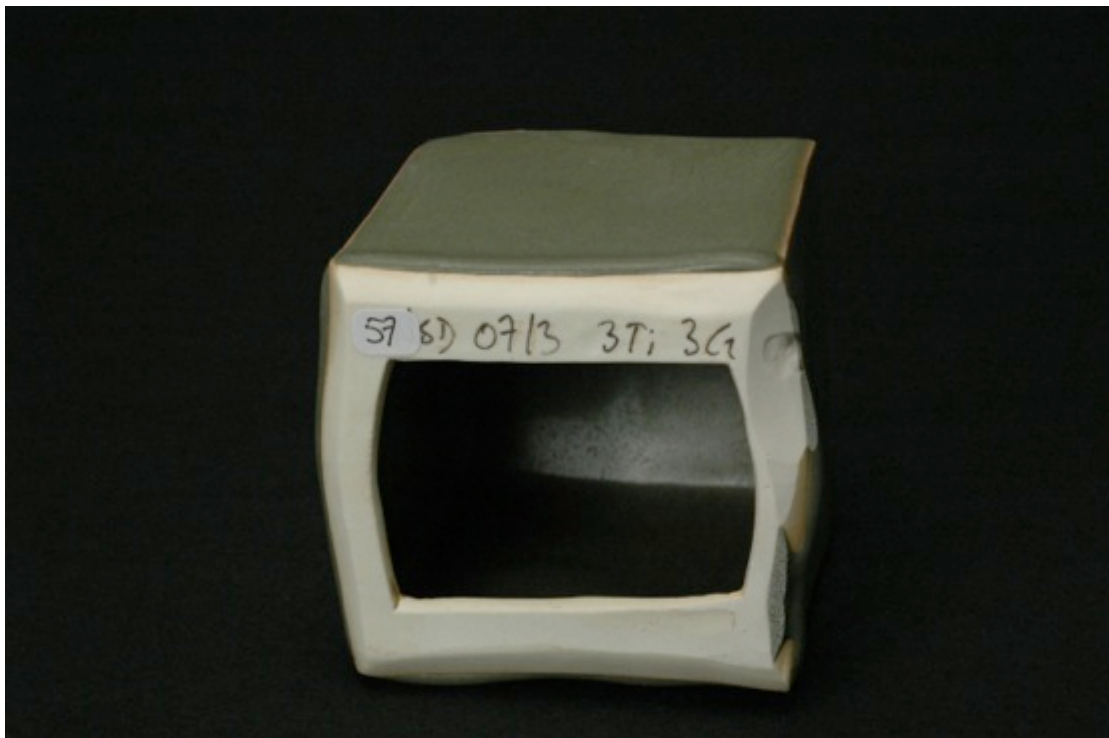
NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 43



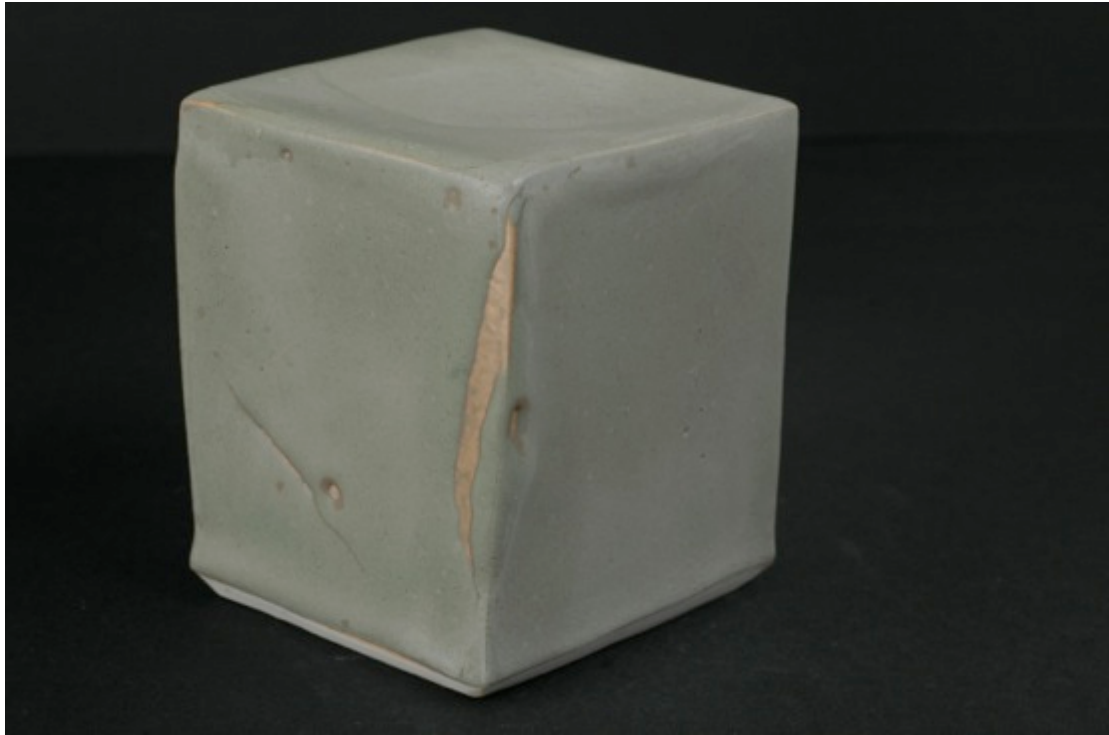
NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 43



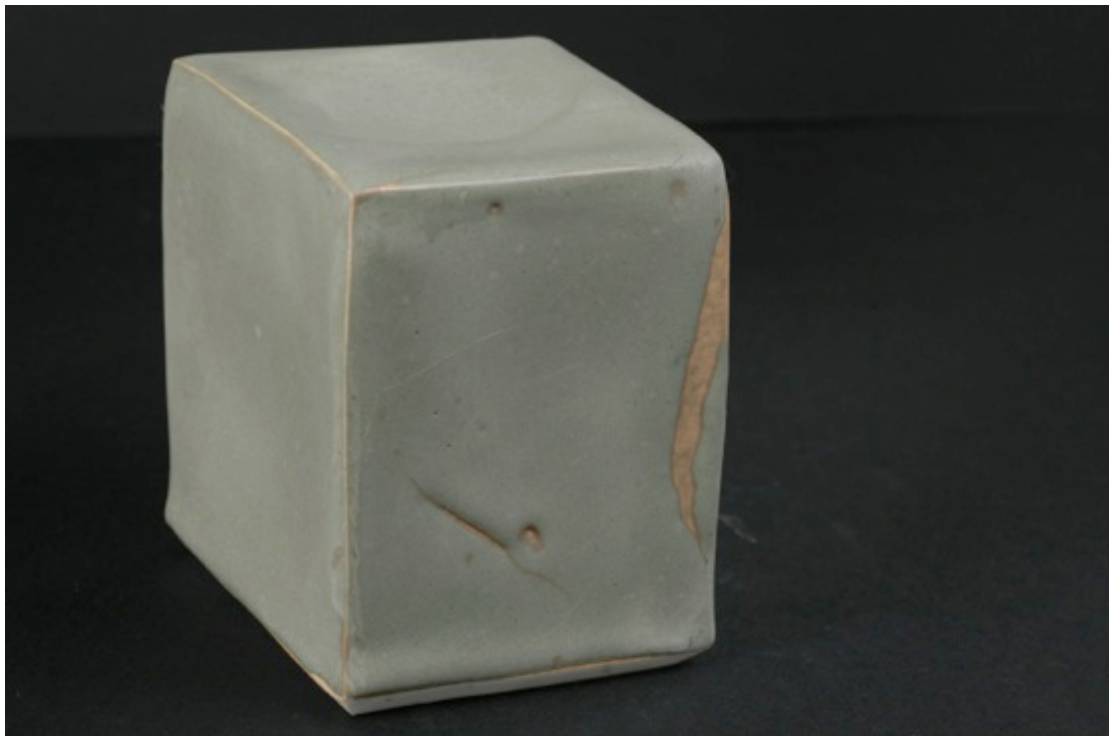
NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 57



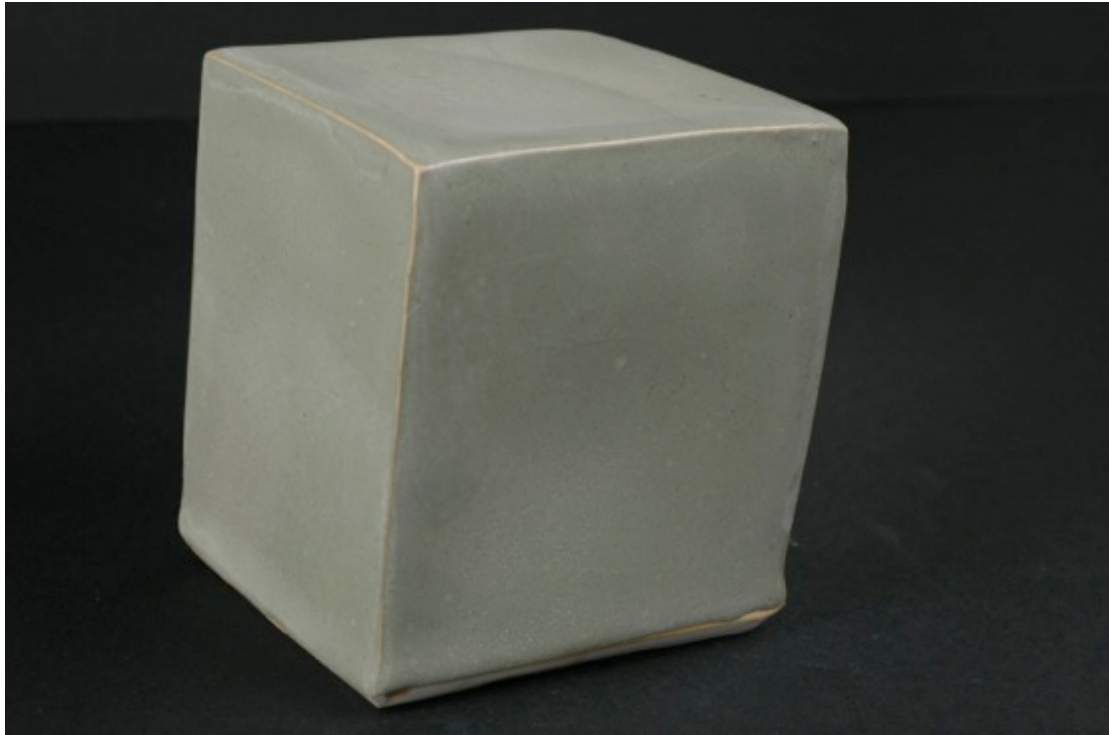
NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 57



NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 68



NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 68



NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 68



NSD 07/3 3Ti 3Cr, neutral firing, Cobblestone Nr. 68

NSD 07/03/4 1 Fe
Cobblestone Nr. 79

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400)	38.2
Nepheline syenite	Boos (A200)	31.2
Dolomite	Boos (DRB 20)	30.6
TOTAL		100.0
Red iron oxide	RCA	1

Molecular formula

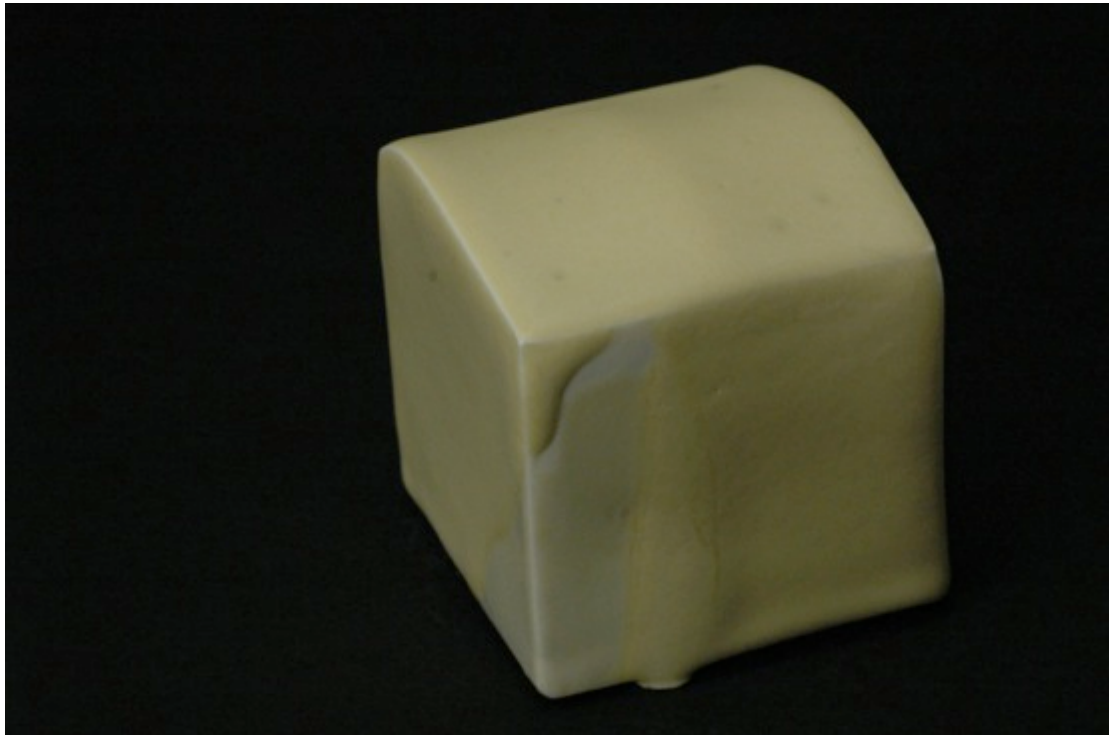
	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.43	0.40	0.04	0.13	0.18	2.36	0.00
%	11.48	7.62	1.76	3.67	8.64	66.78	0.04

Molecular weight: 249

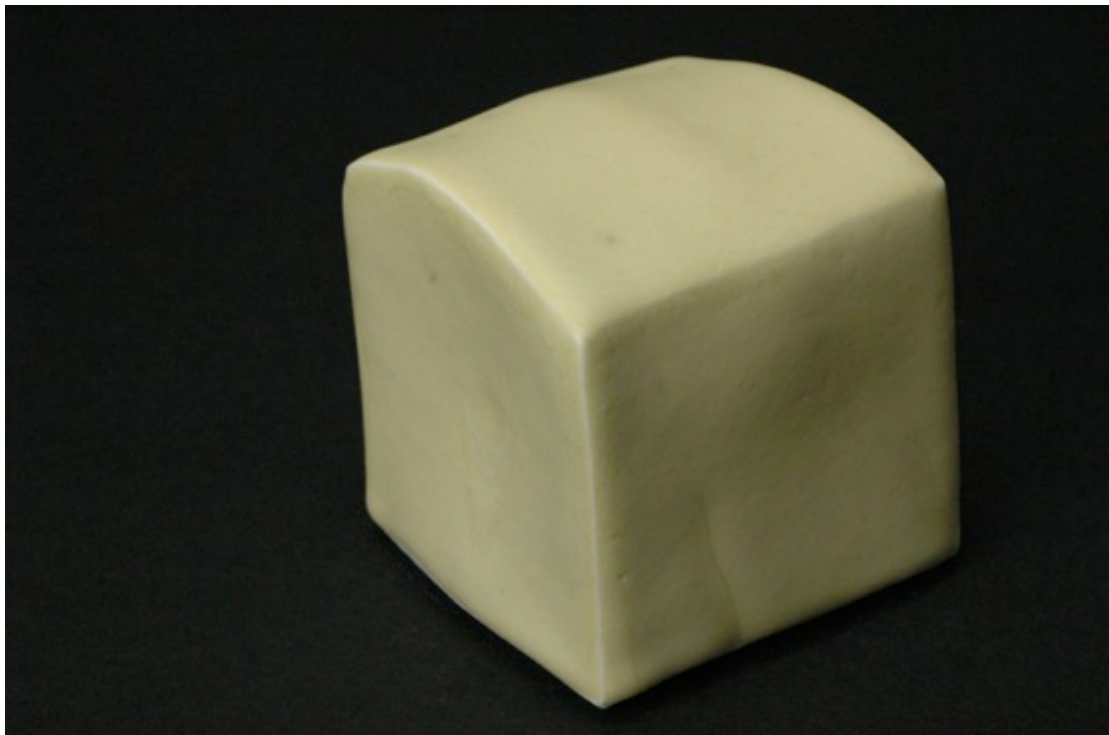
Firing

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)



NSD 07/03/4 1Fe, neutral firing, Cobblestone Nr. 79



NSD 07/03/4 1Fe, neutral firing, Cobblestone Nr. 79



NSD 07/03/4 1Fe, neutral firing, Cobblestone Nr. 79

Glaze NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO

The 'doublemite' controversy

According to the Kolding nomenclature, NSD 07/04/2 should not be the glaze whose recipe is given below. The glaze below is NSD 07/0.2/1.2. But according to the nomenclature this is an impossible glaze: the dolomite brings 0.7 of the alkalis and, the nephelyne syenite the missing 0.3, but it also brings 0.3 Al₂O₃ and this is before adding the china clay. So Al₂O₃ needs always be greater than 0.3. Yet this impossible glaze does work. The error stems from a mistake in all the calculations involving dolomite, which do so with the molecular weight of its theoretical chemical formula CaMg(CO₃)₂: 184, not with that of its actual analysis. For a dolomite with the following chemical analysis: CaO: 31.21% - MgO: 21.11% - Lol: 47.0%, the molecular weight is 92.

If we take the chemical formula, which was simply doubled because it did not have a formula such as 0.5CaMg(CO₃)₂, then the glaze becomes NSD 035/04/2 and not NSD 07, as CaO and MgO would add up to 1.4. NSD 035/04/2 is a viable glaze provided the calculation of the molecular weight stems from a theoretical molecular formulation and not from an actual analysis. Changing the rules of the syntax of the calculation now makes the glaze viable. The glaze is not viable, however, if the original syntax is kept, whereby molecular weight is not theoretical but stems directly from chemical analysis of the material used.

NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO
Cobblestones Nr. 16, 23, 42, 100, 105, 116, 144

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	41.8
Dolomite	Boos (DRB20)	41
China clay	Boos (Kaolin Beauvoir)	8.5
Silica	Boos (SMill E400)	8.7
TOTAL		100.0
Titanium oxide (TiO ₂)	RCA	5.00
Red iron oxide (Fe ₂ O ₃)	RCA	1.00
Cobalt carbonate (CoCO ₃)	RCA	0.50
Chromium oxide(Cr ₂ O ₃)	RCA	0.25

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.43	0.40	0.04	0.13	0.00	0.23	1.17	0.01
%	16.56	11.01	2.74	5.30	0.03	16.31	47.97	1.29

Molecular weight: 183

Firing

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)

Description:

- Monochrome glaze
- Matt glaze
- Depth comes from veil and layer effect
- Sense of surface rather than sense of volume
- Depth akin to painting techniques:
- Extremely fusible and runny: cascade effect



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 16



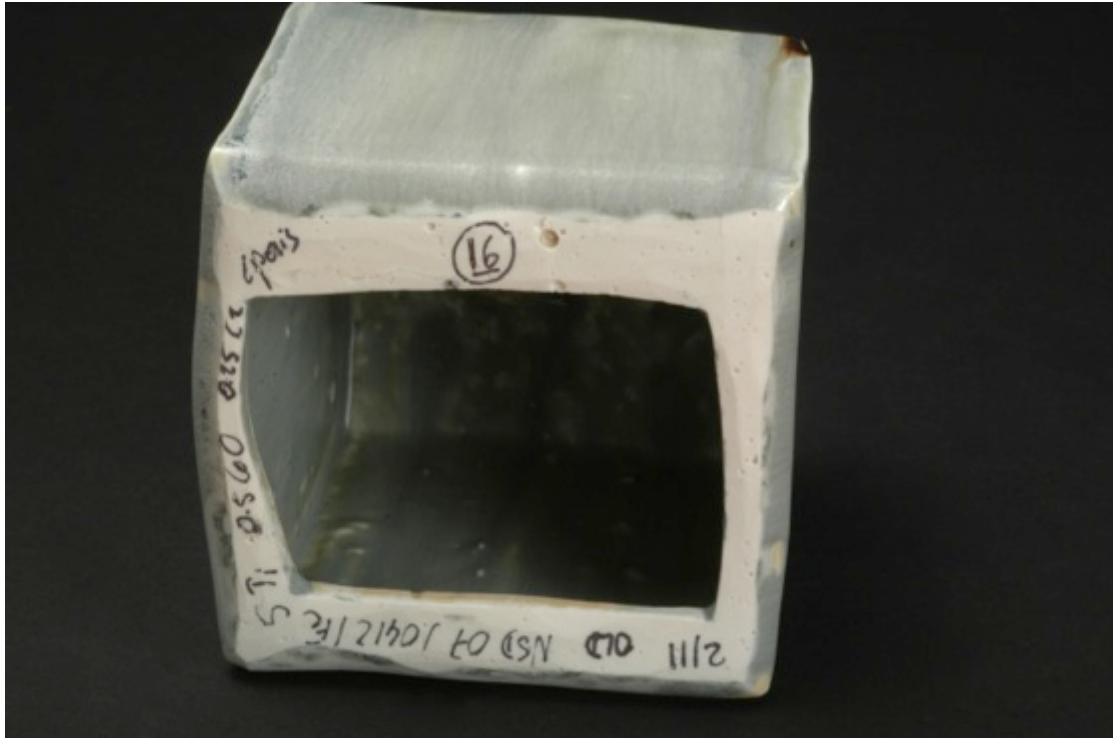
NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 16



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 16



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 16



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 16



*NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO + iron slip, neutral firing,
Cobblestone Nr. 23*



*NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO + iron slip, neutral firing,
Cobblestone Nr. 23*



*NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO + iron slip, neutral firing,
Cobblestone Nr. 23*



*NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO + iron slip, neutral firing,
Cobblestone Nr. 23*



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 42



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 42



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 42



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 42



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO + iron slip, neutral firing, Cobblestone Nr. 105



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO + iron slip, neutral firing, Cobblestone Nr. 105



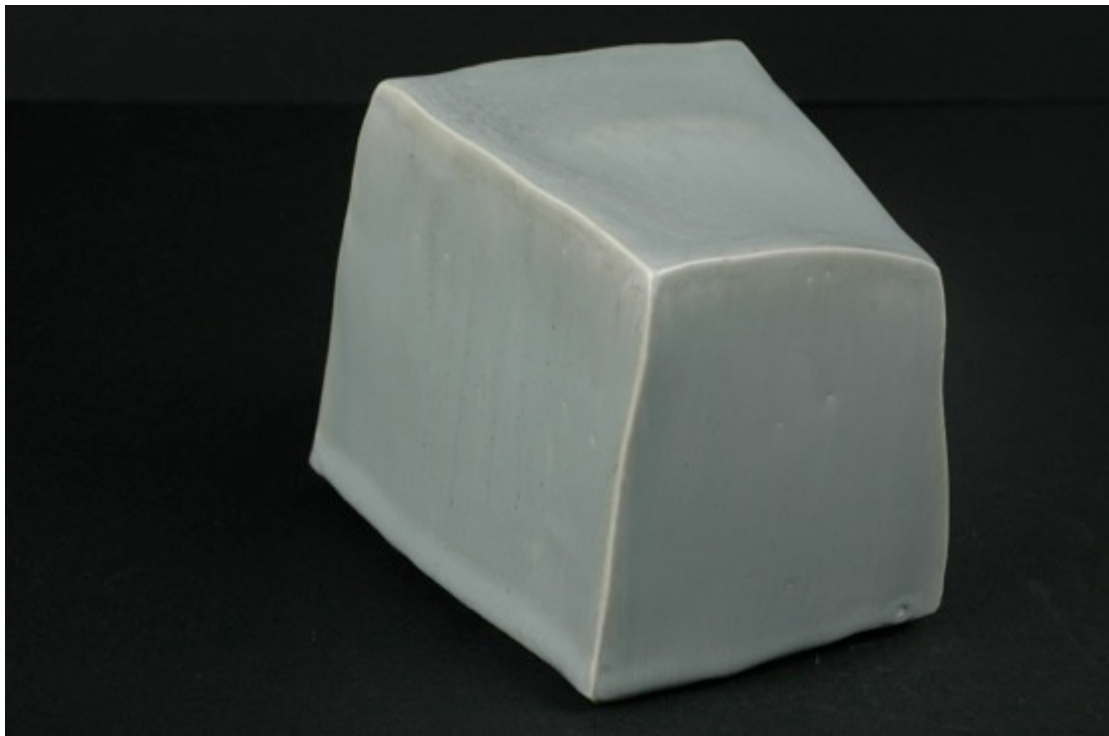
NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone no Nr.



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone no Nr.



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone no Nr.



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone no Nr.



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone no Nr.



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 116



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 116



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 116



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 144



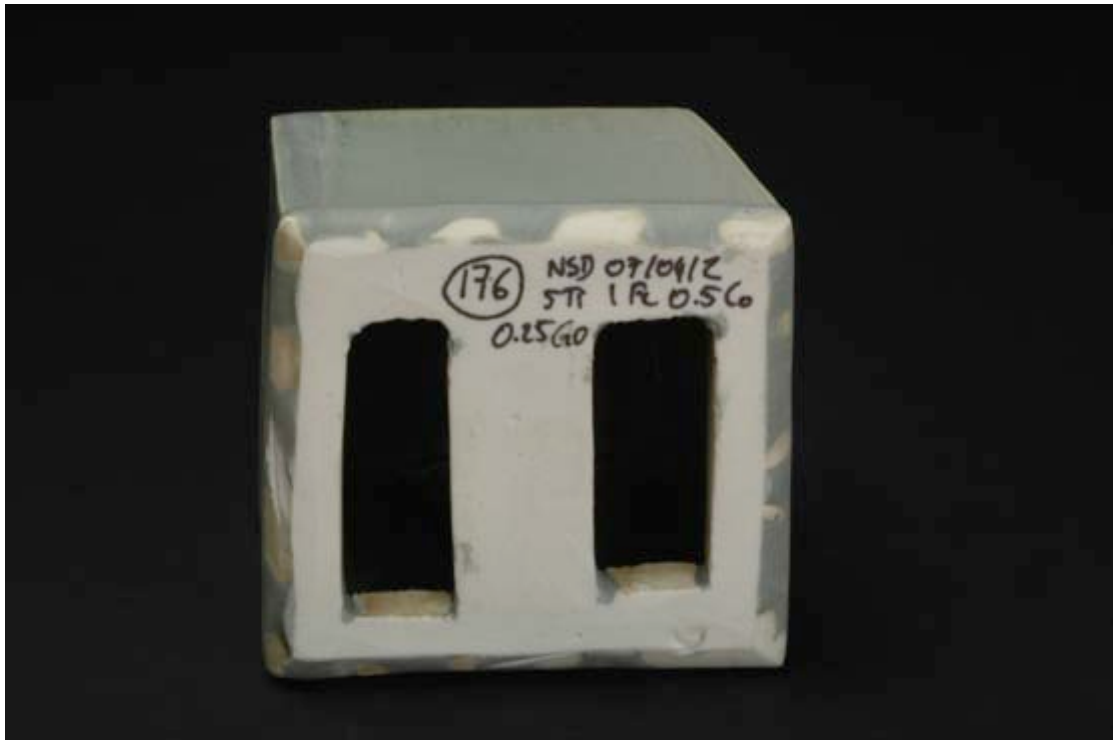
NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 144



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 176



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 176



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 176



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 177



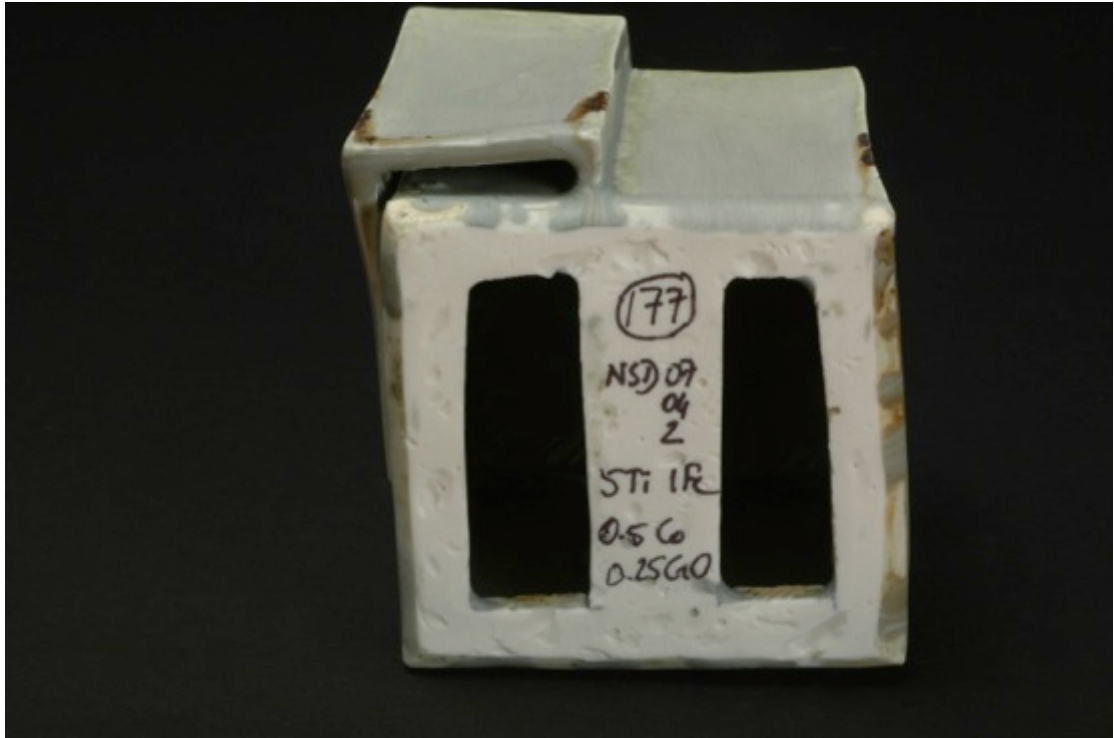
NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 177



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 177



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 177



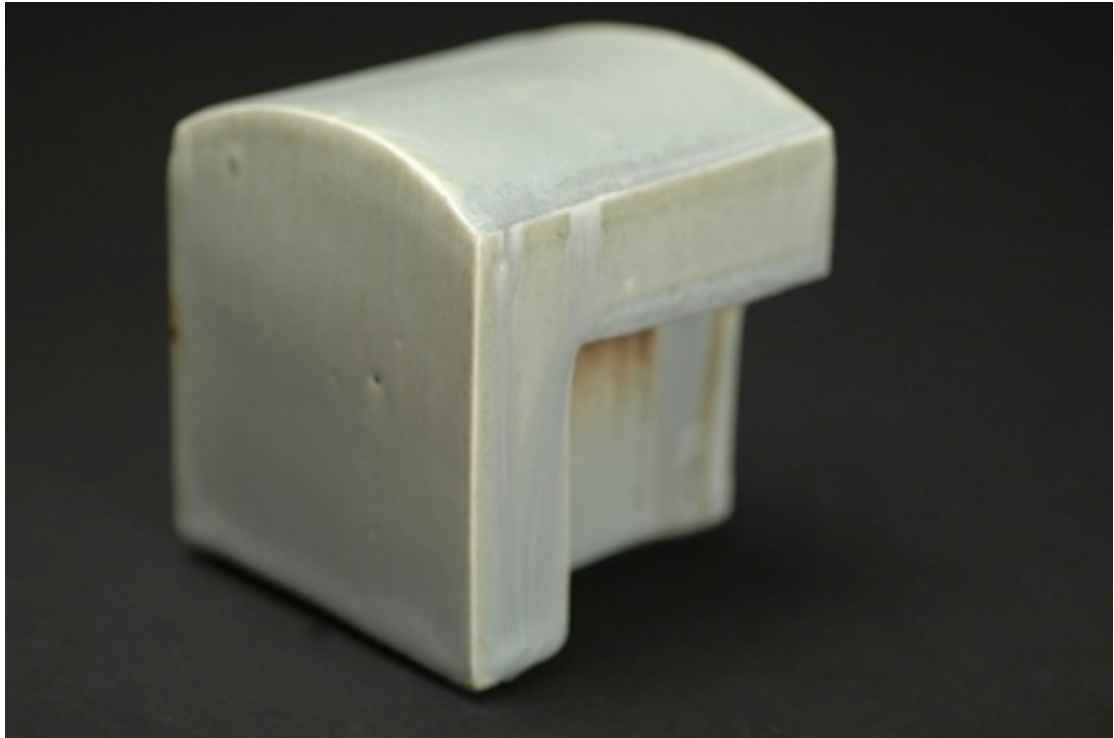
NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 177



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 178



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO, neutral firing, Cobblestone Nr. 178



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 178



NSD 07/04/2 5Ti 1Fe 0.5 CoCO₃ 0.25 CrO, neutral firing, Cobblestone Nr. 178

NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 no chrome
Cobblestone Nr. 109

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	41.8
Dolomite	Boos (DRB20)	41
China clay	Boos (Kaolin Beauvoir)	8.5
Silica	Boos (SMill E400)	8.7
TOTAL		100.0
Titanium oxide (TiO ₂)	RCA	5.00
Red iron oxide (Fe ₂ O ₃)	RCA	1.00
Cobalt carbonate (CoCO ₃)	RCA	0.50

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.43	0.40	0.04	0.13	0.00	0.23	1.17	0.01
%	16.56	11.01	2.74	5.30	0.03	16.31	47.97	1.29

Molecular weight: 183

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric	1263	8h40	150°C/h	Cone 8 (1263°C)

Nr 12				
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NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 no chrome, neutral firing, Cobblestone Nr. 109



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 no chrome, neutral firing, Cobblestone Nr. 109

NSD 07/04/2 5Ti 1Fe 0.25 CrO no cobalt
Cobblestone Nr. 107

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	41.8
Dolomite	Boos (DRB20)	41
China clay	Boos (Kaolin Beauvoir)	8.5
Silica	Boos (SMill E400)	8.7
TOTAL		100.0
Titanium oxide (TiO ₂)	RCA	5.00
Red iron oxide (Fe ₂ O ₃)	RCA	1.00
Chromium oxide (Cr ₂ O ₃)	RCA	0.25

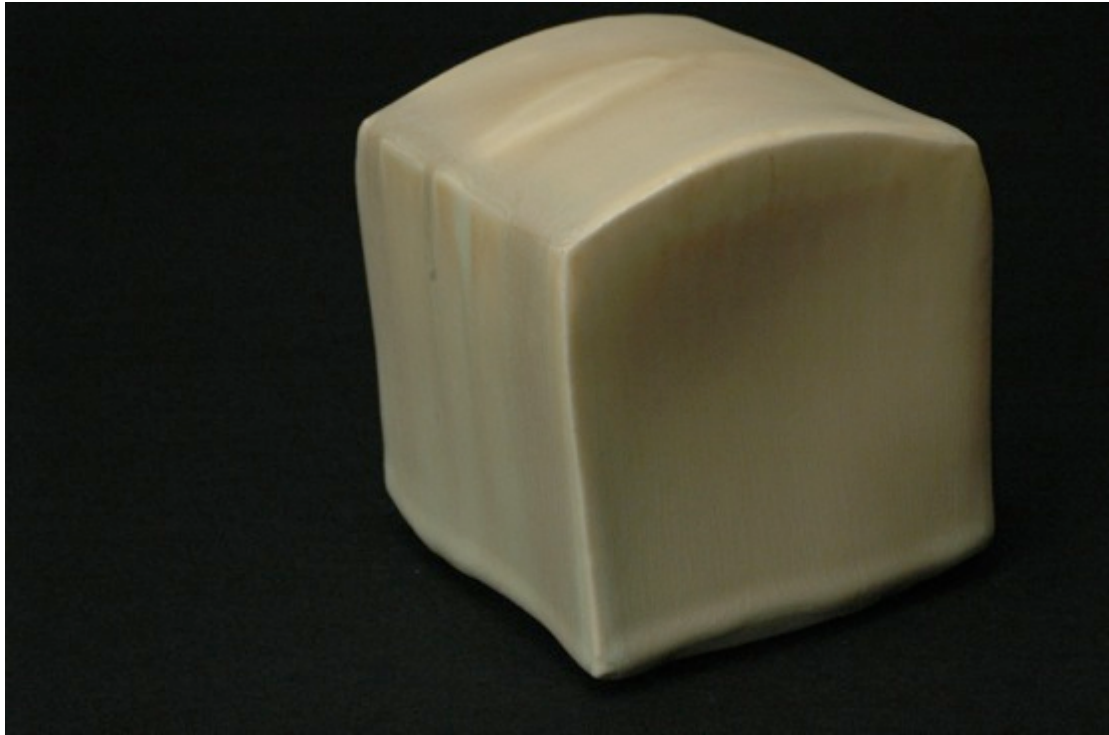
Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.43	0.40	0.04	0.13	0.00	0.23	1.17	0.01
%	16.56	11.01	2.74	5.30	0.03	16.31	47.97	1.29

Molecular weight: 183

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)



NSD 07/04/2 5Ti 1Fe 0.25 CrO no cobalt, neutral firing, Cobblestone Nr. 107



NSD 07/04/2 5Ti 1Fe 0.25 CrO no cobalt, neutral firing, Cobblestone Nr. 107



NSD 07/04/2 5Ti 1Fe 0.25 CrO no cobalt, neutral firing, Cobblestone Nr. 107

NSD 07/04/2 1Fe 0.5 CoCO3 0.25 CrO no titanium
Cobblestones Nr. 83

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	41.8
Dolomite	Boos (DRB20)	41
China clay	Boos (Kaolin Beauvoir)	8.5
Silica	Boos (SMill E400)	8.7
TOTAL		100.0
Red iron oxide (Fe2O3)	RCA	1.00
Cobalt carbonate (CoCO3)	RCA	0.50
Chromium oxide (Cr2O3)	RCA	0.25

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3
Formula	0.43	0.40	0.04	0.13	0.00	0.23	1.17	0.01
%	16.56	11.01	2.74	5.30	0.03	16.31	47.97	1.29

Molecular weight: 183

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)



*NSD 07/04/2 1Fe 0.5 CoCO3 0.25 CrO no titanium, neutral firing,
Cobblestone Nr. 83*



*NSD 07/04/2 1Fe 0.5 CoCO3 0.25 CrO no titanium, neutral firing,
Cobblestone Nr. 83*

NSD 07/04/2 5 Ti 0.5 CoCO₃ 0.25 CrO no iron
Cobblestones Nr. 137

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	41.8
Dolomite	Boos (DRB20)	41
China clay	Boos (Kaolin Beauvoir)	8.5
Silica	Boos (SMill E400)	8.7
TOTAL		100.0
Titanium oxide (TiO ₂)	RCA	5.00
Cobalt carbonate (CoCO ₃)	RCA	0.50
Chromium oxide(Cr ₂ O ₃)	RCA	0.25

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.43	0.40	0.04	0.13	0.00	0.23	1.17	0.01
%	16.56	11.01	2.74	5.30	0.03	16.31	47.97	1.29

Molecular weight: 183

Firing (neutral)

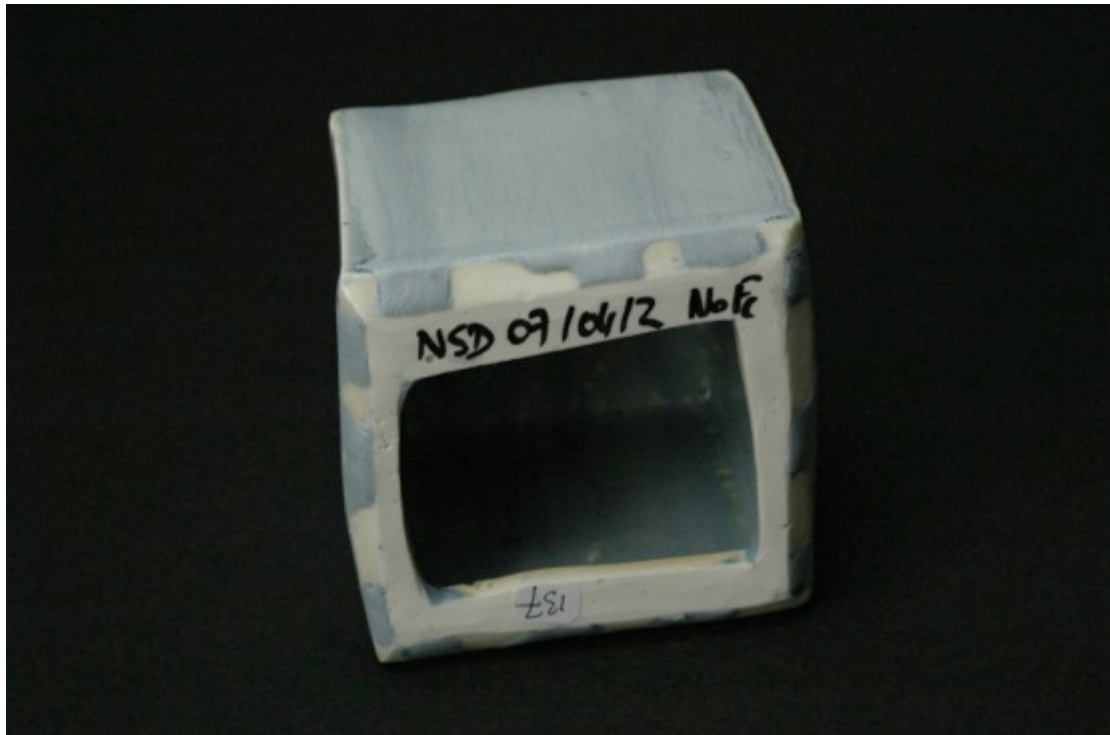
Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)



NSD 07/04/2 5Ti 0.5 CoCO3 0.25 CrO no iron, neutral firing, Cobblestone Nr. 137



NSD 07/04/2 5Ti 0.5 CoCO3 0.25 CrO no iron, neutral firing, Cobblestone Nr. 137



NSD 07/04/2 5Ti 0.5 CoCO₃ 0.25 CrO no iron, neutral firing, Cobblestone Nr. 137

NSD 07/04/2 5 Ti 1 Fe 0.5 CoCO₃ 0.25 CrO - new
Cobblestones Nr. 59

New recipe with molecular weight of dolomite as 92 and not 184 (see 'doublemite' controversy above).

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	52.5
Dolomite	Boos (DRB20)	25.5
China clay	Boos (Kaolin Beauvoir)	10.7
Silica	Boos (SMill E400)	11.0
TOTAL		100.0
Titanium oxide (TiO ₂)	RCA	5.00
Red iron oxide (Fe ₂ O ₃)	RCA	1.00
Cobalt carbonate (CoCO ₃)	RCA	0.50
Chromium oxide(Cr ₂ O ₃)	RCA	0.25

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.37	0.34	0.07	0.21	0.00	0.40	2.00	0.00
%	9.69	6.33	3.17	6.12	0.03	18.95	55.61	0.09

Molecular weight: 247

Firing

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1263	8h40	150°C/h	Cone 8 (1263°C)



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO (new) + iron slip, neutral firing, Cobblestone Nr. 59



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO (new) + iron slip, neutral firing, Cobblestone Nr. 59



NSD 07/04/2 5Ti 1Fe 0.5 CoCO3 0.25 CrO (new) + iron slip, neutral firing, Cobblestone Nr. 59

TNSCB 16 (base)
Cobblestones Nr. 43, 57, 68

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

TNSCB 16 – 3 Ti
Cobblestones Nr. 118, 172

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Titane	RCA	3

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C) 6h10 (1275°C)	150°C/h 60°C/h	Cone 9-10 (1260-1285°C)

Description:

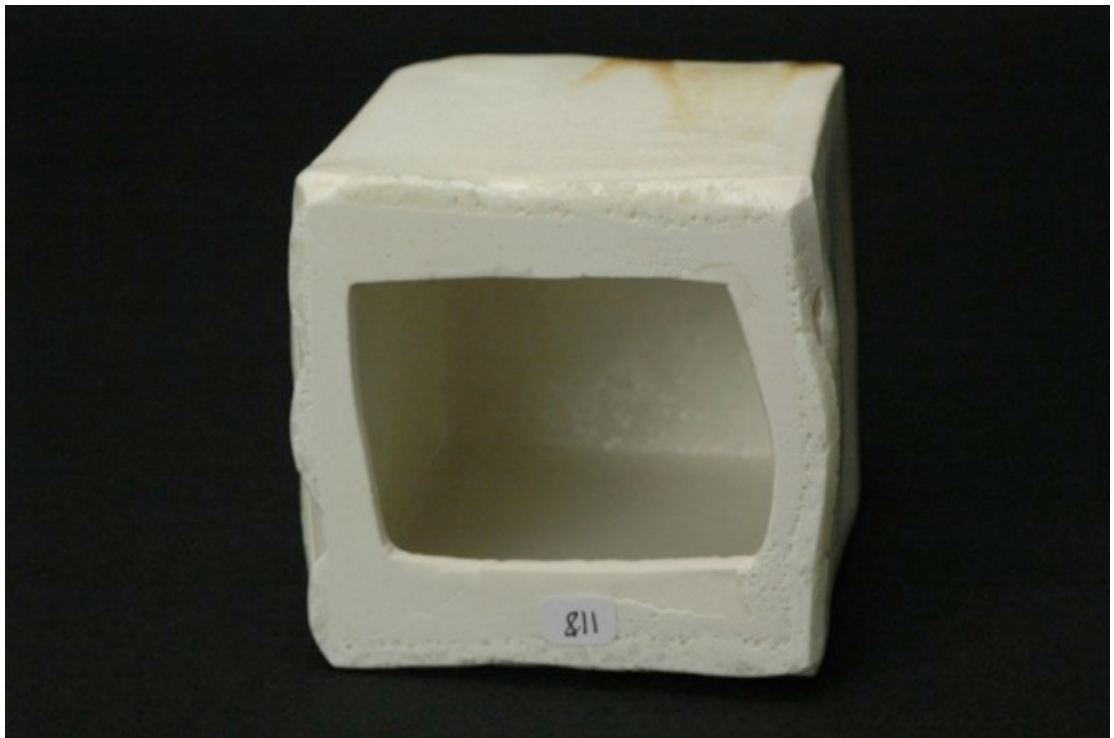
- Monochrome glaze
- Matt and transparent
- Dense crackles
- Rough to the touch. Dry and crystallised aspect (similar to melted sugar)
- Runny



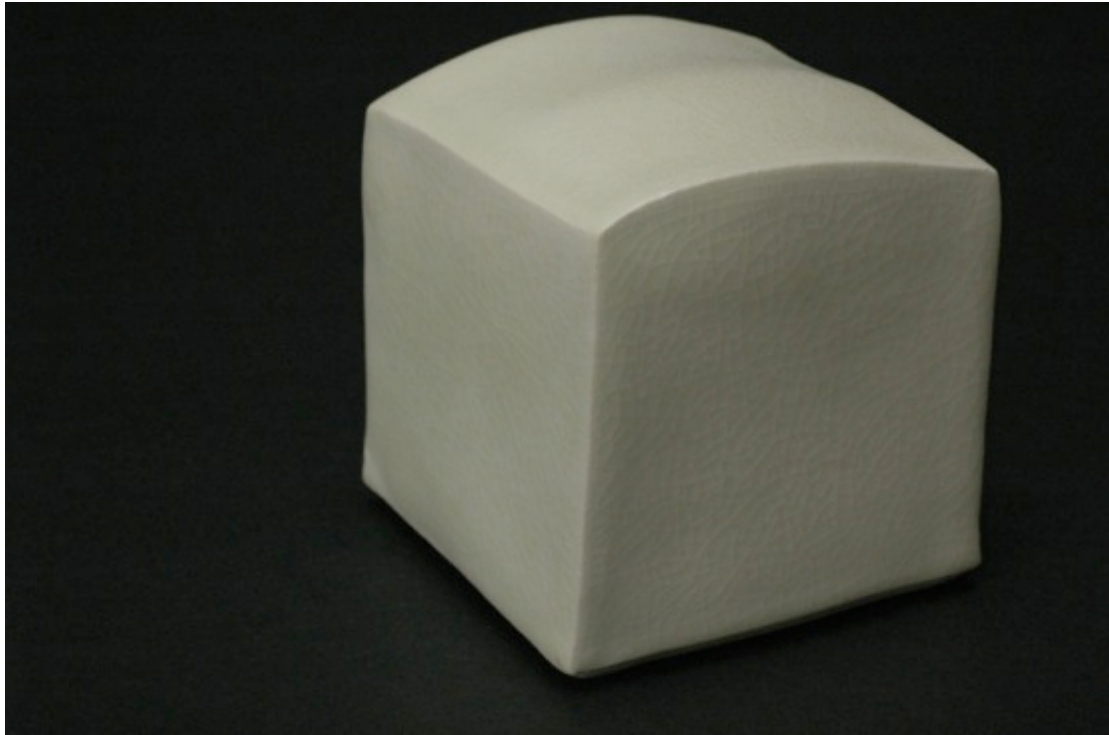
TNSCB 16 3Ti



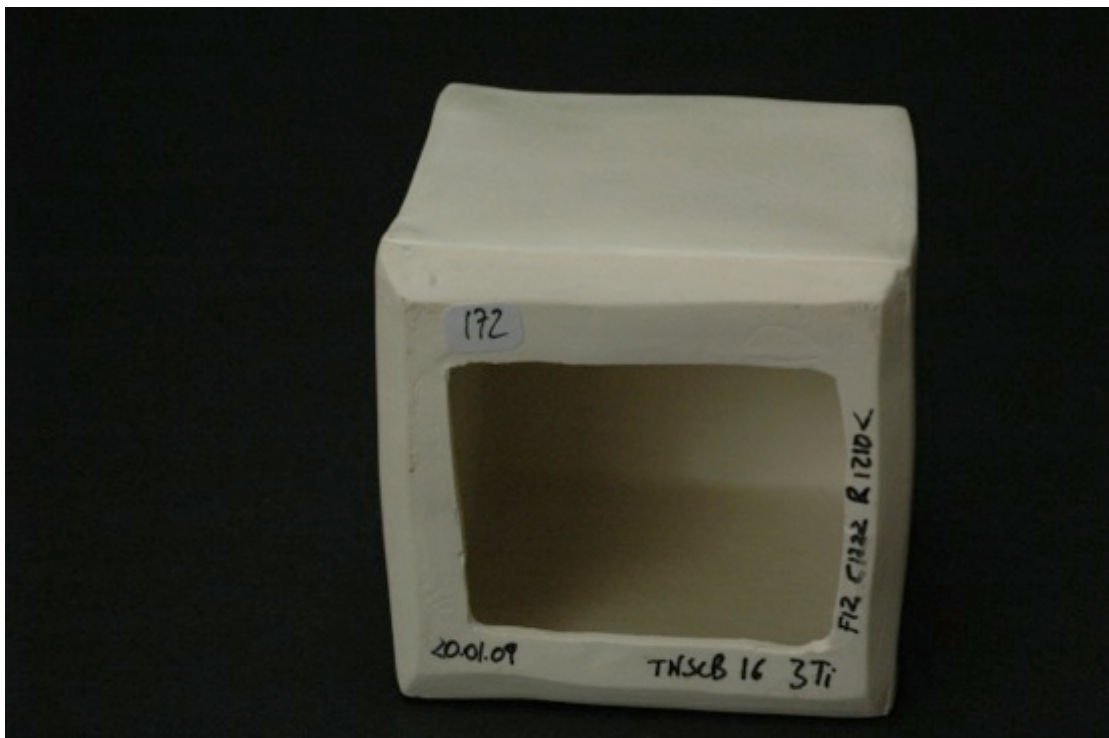
TNSCB 16 3Ti, neutral firing, Cobblestone Nr. 118



TNSCB 16 3Ti, neutral firing, Cobblestone Nr. 118



TNSCB 16 3Ti, neutral firing, Cobblestone Nr. 172



TNSCB 16 3Ti, neutral firing, Cobblestone Nr. 172

TNSCB 16 – 3 Fe
Cobblestones Nr. 38, 44

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Iron oxide	RCA	3

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firing (neutral)

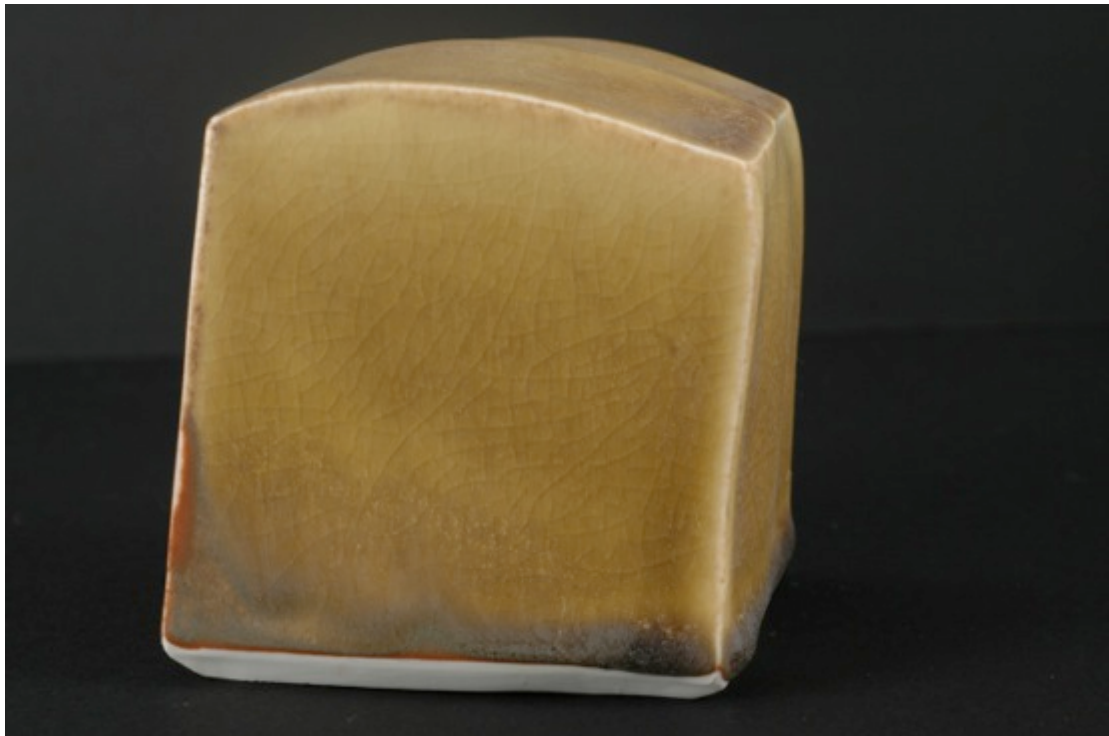
Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C) 6h10 (1275°C)	150°C/h 60°C/h	Cone 9-10 (1260-1285°C)



TNSCB 16 3Fe



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 38



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 38



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 38



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 38



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 38



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 44



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 44



TNSCB 16 3Fe, neutral firing, Cobblestone Nr. 44

TNSCB 16 – 7 Fe
Cobblestones Nr. 72, 88

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Iron oxide	RCA	7

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C)	150°C/h	Cone 9-10 (1260-1285°C)
		6h10 (1275°C)	60°C/h	



TNSCB 16 7Fe



TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 72



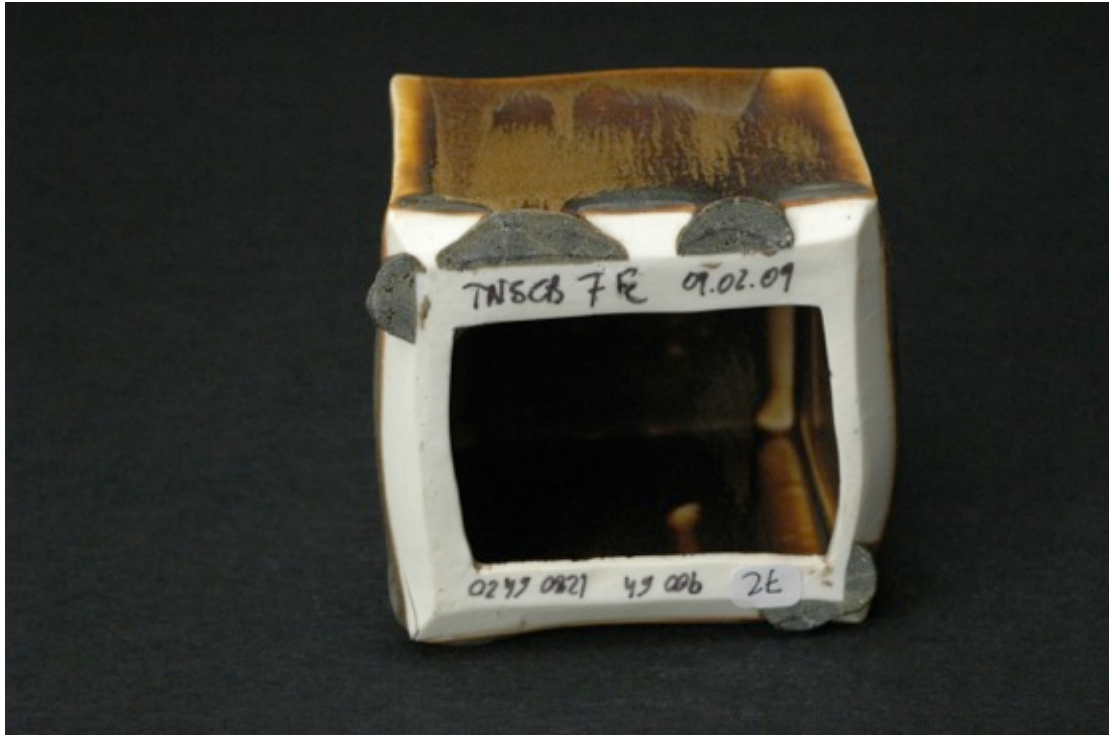
TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 72



TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 72



TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 72



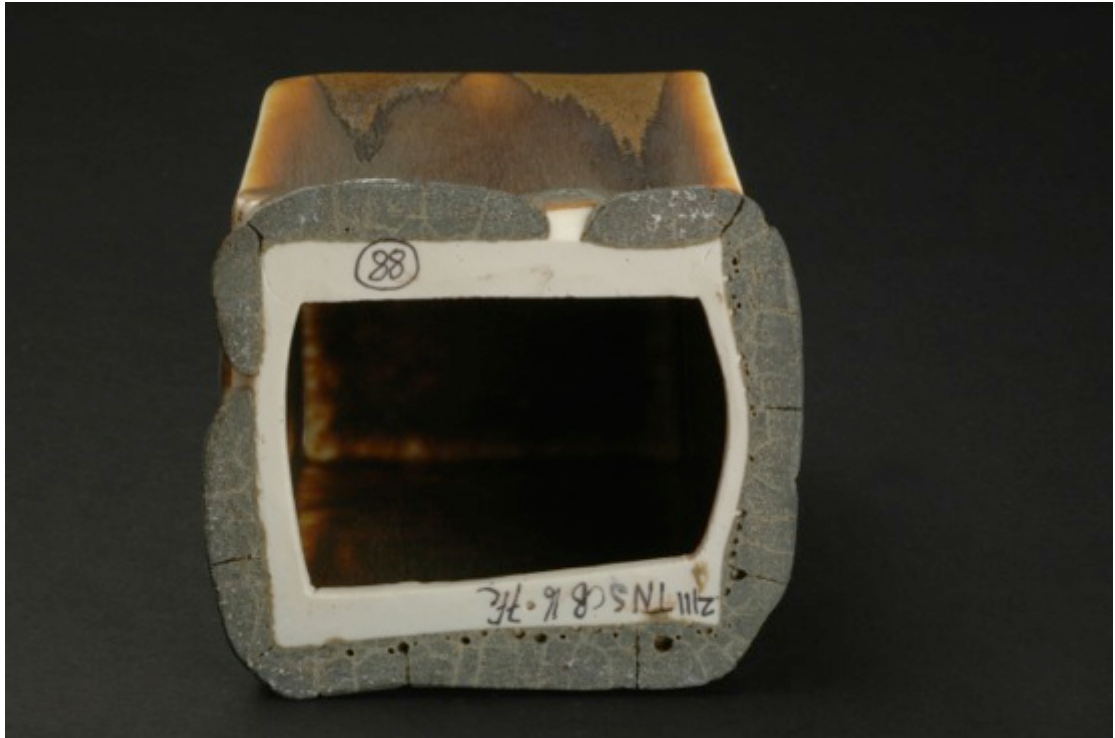
TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 72



TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 88



TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 88



TNSCB 16 7Fe, neutral firing, Cobblestone Nr. 88

TNSCB 16 – 3 Ti 3 Fe
Cobblestones Nr. 96, 155

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Titane	RCA	3
Iron oxide	RCA	3

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C)	150°C/h	Cone 9-10 (1260-1285°C)
		6h10 (1275°C)	60°C/h	



TNSCB 16 3Ti 3Fe



TNSCB 16 3Ti 3Fe, neutral firing, Cobblestone Nr. 96



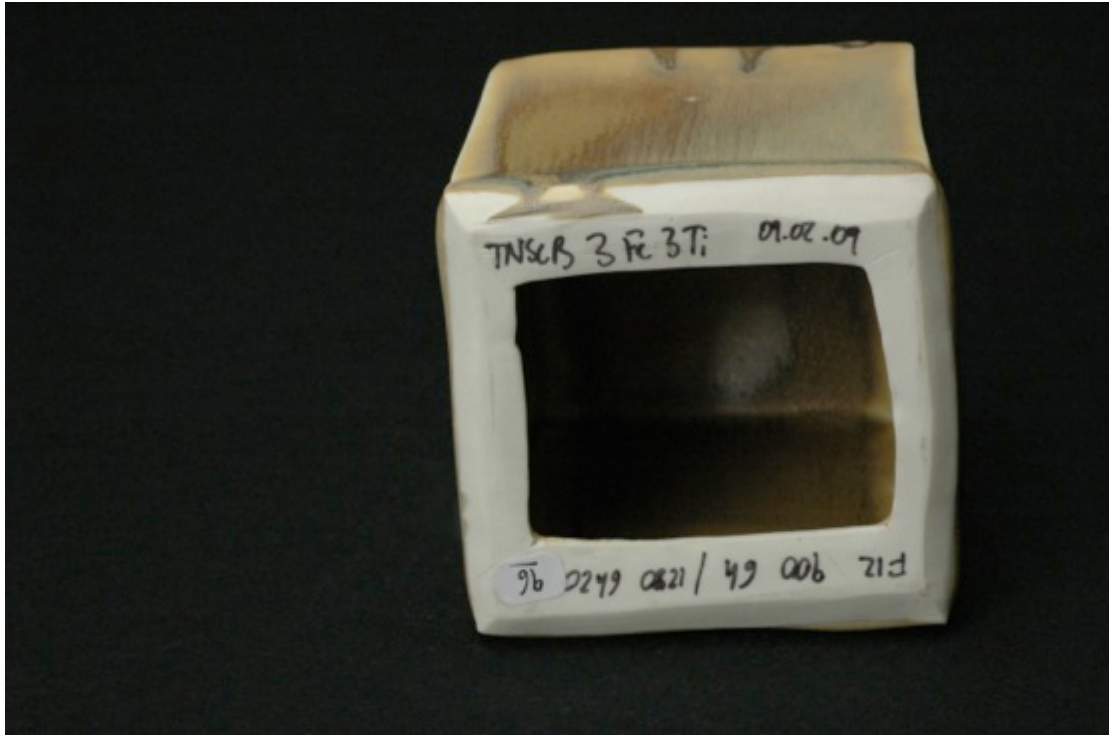
TNSCB 16 3Ti 3Fe, neutral firing, Cobblestone Nr. 96



TNSCB 16 3Ti 3Fe, neutral firing, Cobblestone Nr. 96



TNSCB 16 3Ti 3Fe, neutral firing, Cobblestone Nr. 96



TNSCB 16 3Ti 3Fe, neutral firing, Cobblestone Nr. 96



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155



TNSCB 16 3Ti 3Fe + iron slip, neutral firing, Cobblestone Nr. 155

TNSCB 16 – 5 Ti 7 Fe
Cobblestones Nr. 6, 35, 65, 75, 130

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Titane	RCA	5
Iron oxide	RCA	7

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firings

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C)	150°C/h	Cone 9-10 (1260-1285°C)
		6h10 (1275°C)	60°C/h	

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	>Cone 9 (1280°C)



TNSCB 16 5Ti 7Fe



TNSCB 16 5Ti 7Fe + iron slip, neutral firing, Cobblestone Nr. 6



TNSCB 16 5Ti 7Fe + iron slip, neutral firing, Cobblestone Nr. 6



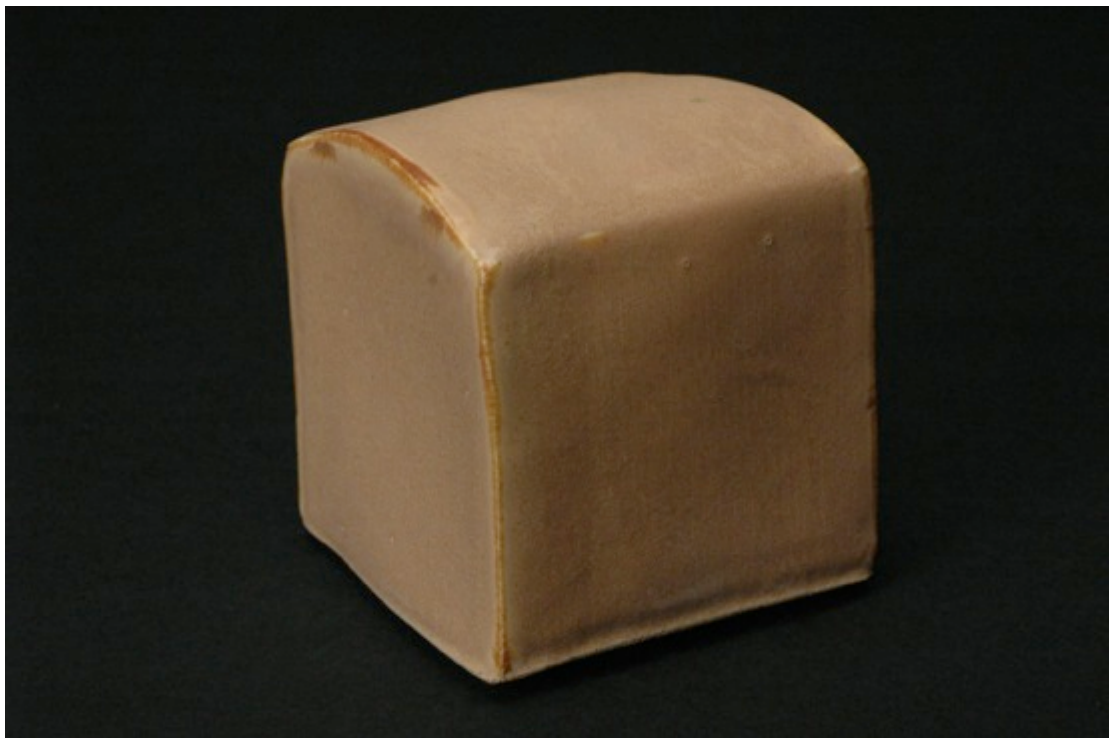
TNSCB 16 5Ti 7Fe + iron slip, neutral firing, Cobblestone Nr. 6



TNSCB 16 5Ti 7Fe + iron slip, neutral firing, Cobblestone Nr. 6



TNSCB 16 5Ti 7Fe, neutral firing, Cobblestone Nr. 35



TNSCB 16 5Ti 7Fe, neutral firing, Cobblestone Nr. 35



TNSCB 16 5Ti 7Fe, neutral firing, Cobblestone Nr. 35



TNSCB 16 5Ti 7Fe + iron slip, reduction firing, Cobblestone Nr. 130



TNSCB 16 5Ti 7Fe + iron slip, reduction firing, Cobblestone Nr. 130



TNSCB 16 5Ti 7Fe + iron slip, reduction firing, Cobblestone Nr. 130



TNSCB 16 5Ti 7Fe + iron slip, reduction firing, Cobblestone Nr. 130



TNSCB 16 5Ti 7Fe + iron slip, reduction firing, Cobblestone Nr. 130



TNSCB 16 5Ti 7Fe + iron slip, reduction firing, Cobblestone Nr. 130

TNSCB 16 – 5 Ti 10 Fe*Cobblestones Nr. 22, 27, 36, 41, 71, 78, 136, 154, 168*

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Titane	RCA	5
Iron oxide	RCA	10

Molecular formula

	CaO	MgO	K₂O	Na₂O	Li₂O	Al₂O₃	SiO₂	Fe₂O₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firings

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C)	150°C/h	Cone 9-10 (1260-1285°C)
		6h10 (1275°C)	60°C/h	

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	>Cone 9 (1280°C)



TNSCB 16 5Ti 10Fe



TNSCB 16 5Ti 10Fe



TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 27



TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 27



TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 27



TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 27

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TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 168



TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 168



TNSCB 16 5Ti 10Fe, neutral firing, Cobblestone Nr. 168



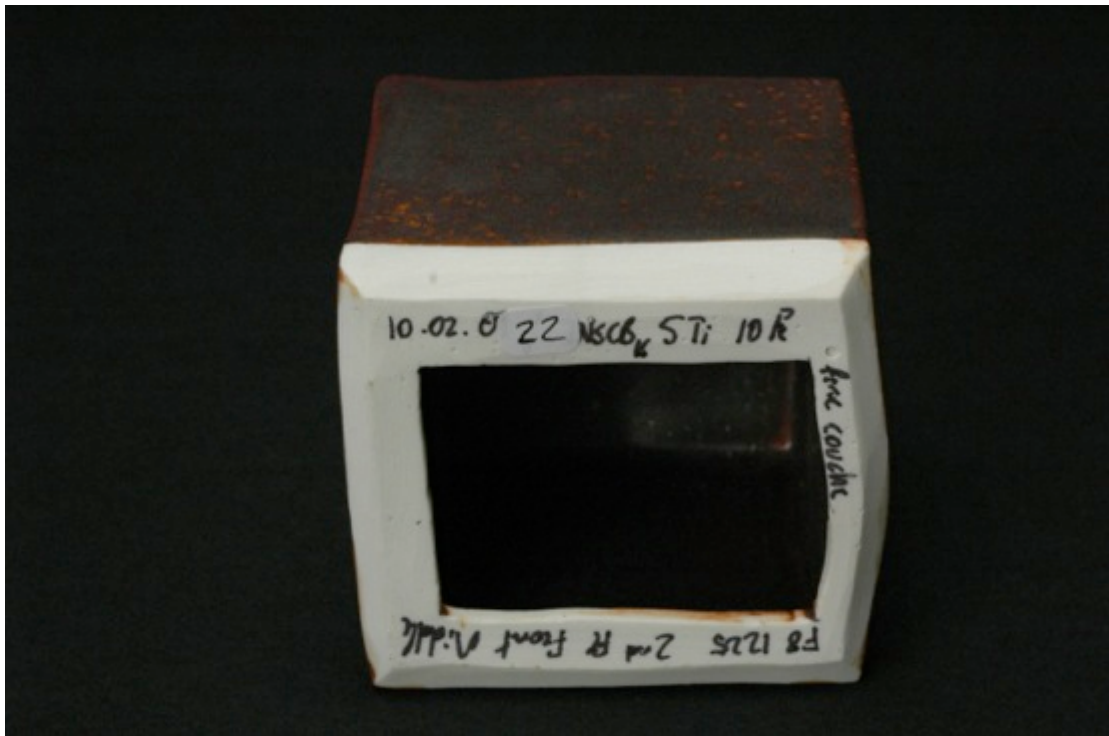
TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 22



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 22



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 22



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 22



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 36



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 36



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 36



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 36



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 41



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 41



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 41



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 71



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 71



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 78



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 136



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 136



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 154



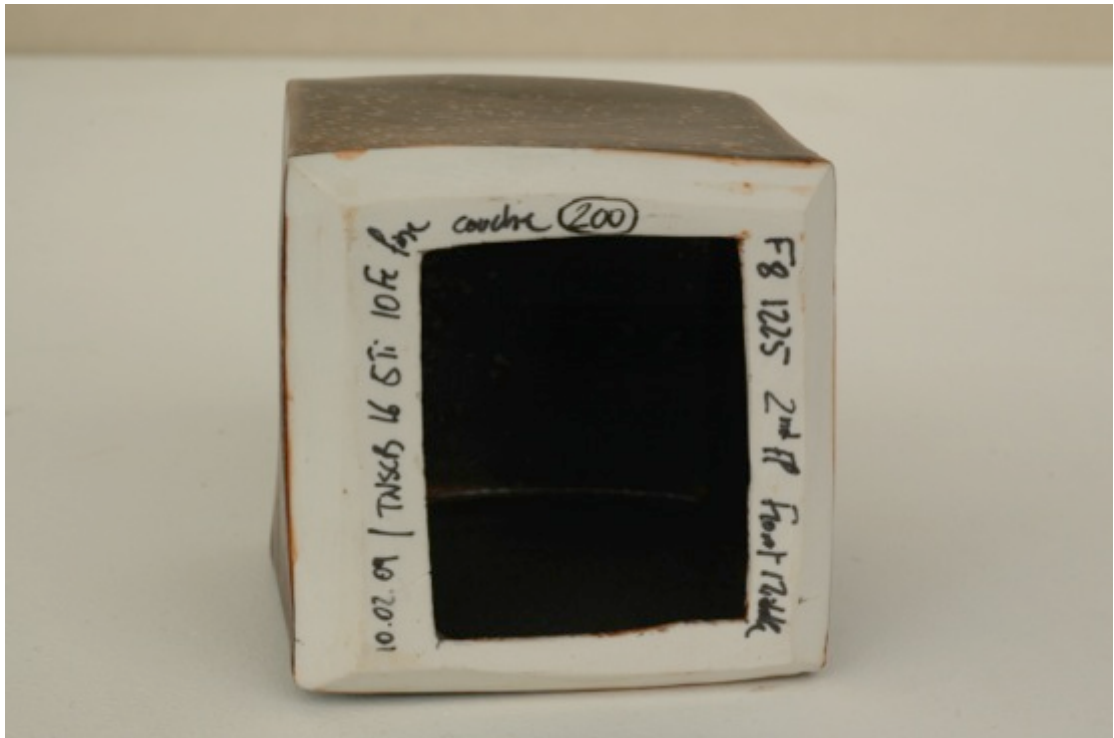
TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 154



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 154



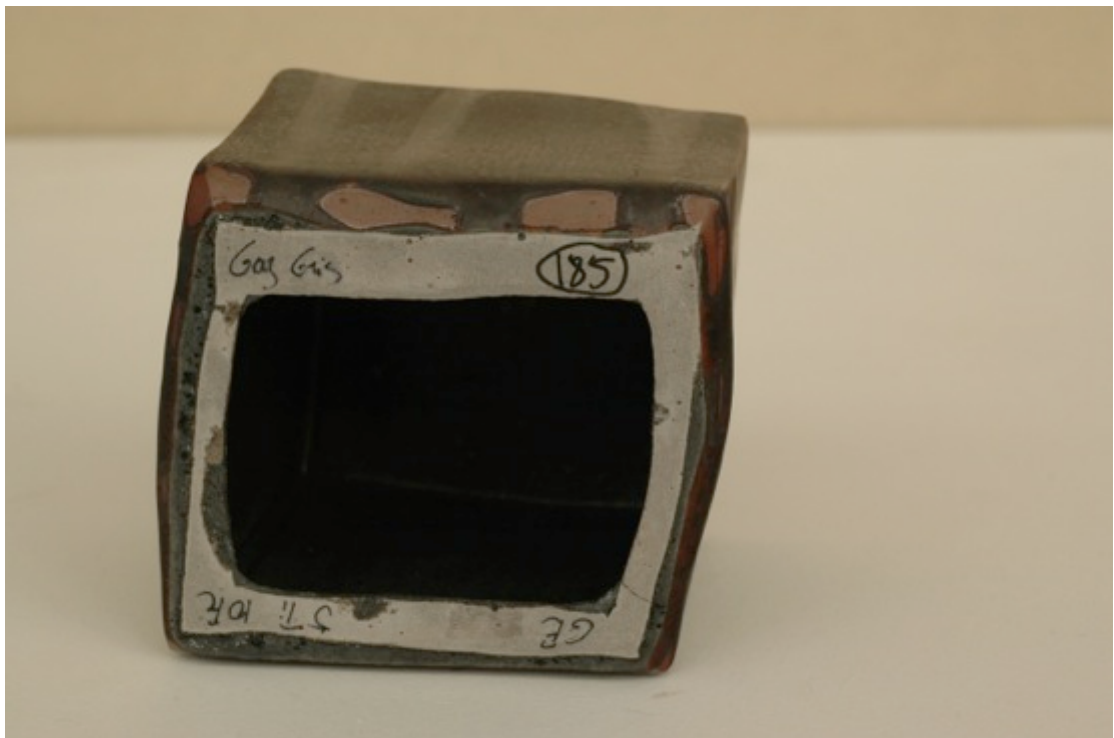
TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 200



TNSCB 16 5Ti 10Fe, reduction firing, Cobblestone Nr. 200



TNSCB 16 5Ti 10Fe, reduction firing, stained porcelain body, Cobblestone Nr. 185



TNSCB 16 5Ti 10Fe, reduction firing, stained porcelain body, Cobblestone Nr. 185

TNSCB 16 – 5 Ru 5 Fe
Cobblestones Nr. 49, 65, 75

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	50
Kaolin	Boos (BIP)	25
Whiting (CaCO ₃)	Boos (Chaux BL)	25
TOTAL		100.0
Rutile	RCA	5
Iron oxide	RCA	5

Molecular formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.68	0.01	0.08	0.22	0.01	0.55	1.89	0.00
%	16.54	0.25	3.36	5.90	0.08	24.41	49.31	0.12

Molecular weight: 261

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C)	150°C/h	Cone 9-10 (1260-1285°C)
		6h10 (1275°C)	60°C/h	



TNSCB 16 5Ru 5Fe



TNSCB 16 5Ru 5Fe, neutral firing, Cobblestone Nr. 49



TNSCB 16 5Ru 5Fe, neutral firing, Cobblestone Nr. 49



TNSCB 16 5Ru 5Fe, neutral firing, Cobblestone Nr. 49



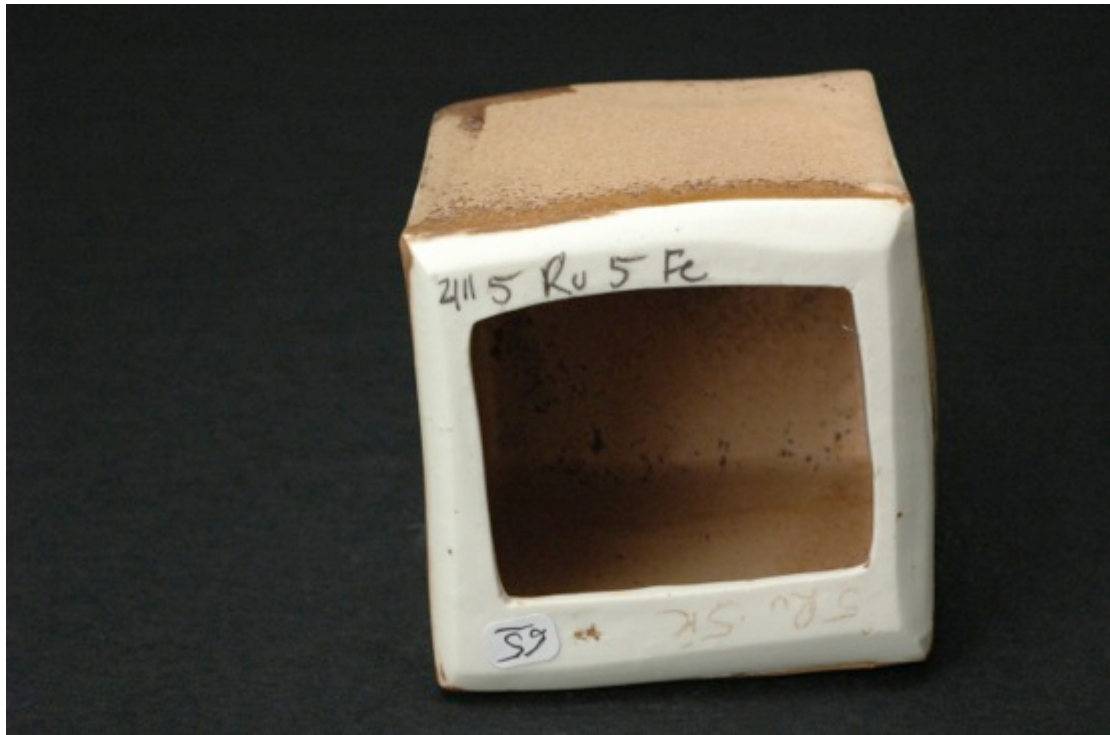
Cobblestone Nr. 49



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 65



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 65



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 65



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 75



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 75



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 75



TNSCB 16 5Ru 5Fe + iron slip, neutral firing, Cobblestone Nr. 75

FFB 08/2 9 MnO₂*Cobblestones Nr. 7, 187, 188*

Recipe

Material	Source	Quantity
Barium carbonate	RCA	48.1
Forshammer feldspar	Boos	46.5
Silica	Boos (E400)	5.4
TOTAL		100.0
Manganese	RCA	9

Molecular formula

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.01	0.01	0.80	0.07	0.12	0.22	2.22	0.00
%	0.10	0.10	42.00	2.19	2.45	7.58	45.49	0.07

Molecular weight: 329

Firing (neutral)

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h00 (900°C) 6h10 (1275°C)	150°C/h 60°C/h	Cone 9-10 (1260-1285°C)



FFB 08/2 9 MnO₂



FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 7



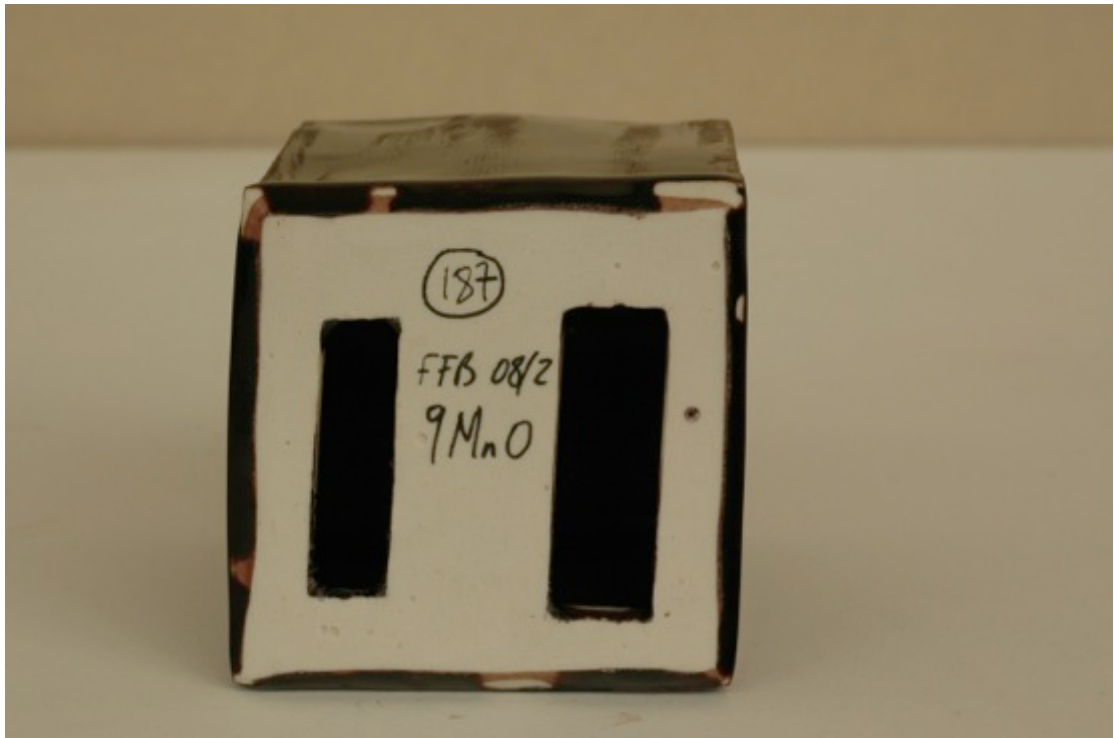
FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 7



FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 7



FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 187



FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 187



FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 188



FFB 08/2 9 MnO₂, neutral firing, Cobblestone Nr. 188

CARRIÈS

Source: Recipes provided by Jean Carriès's glaze technician between 1891 and 1893: L. Auclair (Auclair, 1910).

CA 4 + UNKNOWN GLAZE CA ?1 *Cobblestone Nr. 60*

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 4+unknown glaze CA ?1, neutral firing, Cobblestone Nr. 60



CA 4+unknown glaze CA ?1, neutral firing, Cobblestone Nr. 60



CA 4+unknown glaze CA ?1, neutral firing, Cobblestone Nr. 60



CA 4+unknown glaze CA ?1, neutral firing, Cobblestone Nr. 60

CA 4 + CA 17
Cobblestones Nr. 14, 132

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Recipe CA 17

Material	Source	Quantity
China clay	Boos (BIP)	370
Barium carbonate	RCA	230
Wood ash (oak)	Boos	216
Feldspar	Boos (FAlI)	152
Whiting	Boos (BL)	32
Copper carbonate	RCA	60
Total		1060

Molecular formula CA 17

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.48	0.11	0.24	0.11	0.05	0.34	1.05	0.00
%	14.52	2.29	20.16	5.83	1.71	18.54	34.01	0.38

Molecular weight: 199

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



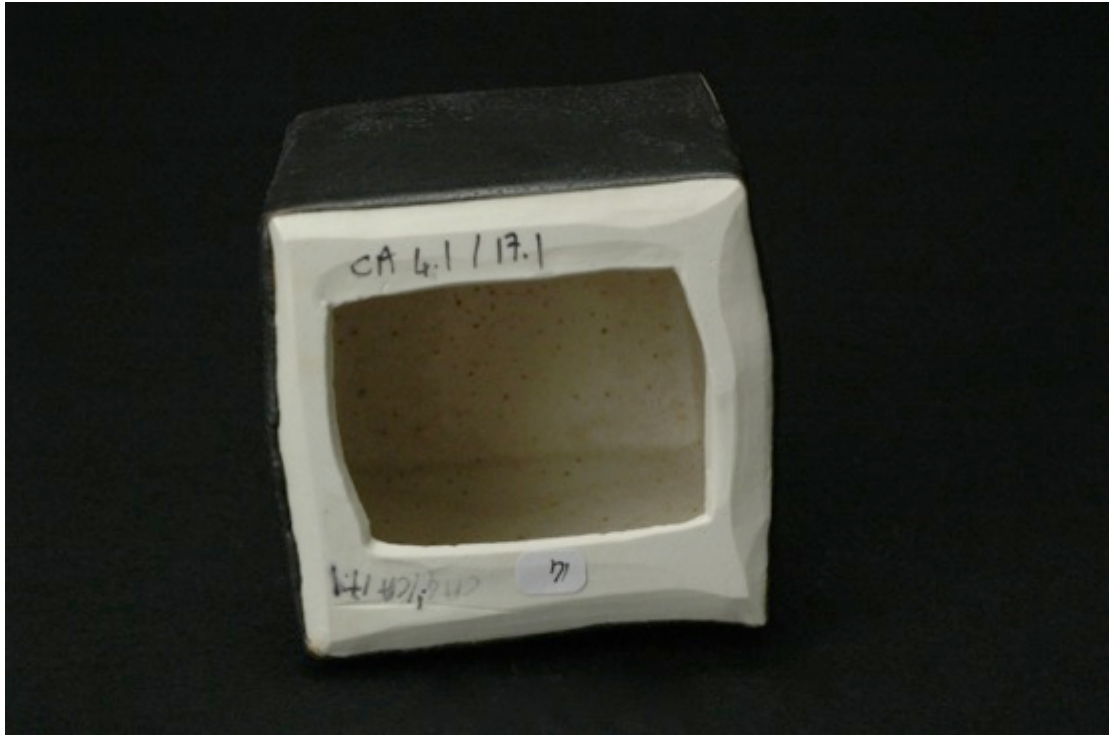
CA 4+CA 17



CA 4+CA 17, neutral firing, Cobblestone Nr. 14



CA 4+CA 17, neutral firing, Cobblestone Nr. 14



CA 4+CA 17, neutral firing, Cobblestone Nr. 14



CA 4+CA 17, neutral firing, Cobblestone Nr. 132



CA 4+CA 17, neutral firing, Cobblestone Nr. 132

CA 4 + CA 18
Cobblestone Nr. 5

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Recipe CA 18

Material	Source	Quantity
China clay	Boos (BIP)	262
Lava	Boos (Volvic)	149
Wood ash (oak)	Boos	117
Whiting	Boos (BL)	115
Barium carbonate	RCA	114
Feldspar	Boos (FAll)	75
Copper carbonate	RCA	43
Total		1000

Molecular formula CA 18

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.57	0.09	0.14	0.10	0.09	0.38	1.59	0.02
%	15.04	1.75	10.00	4.41	2.56	18.26	44.78	1.38

Molecular weight: 245

Firing protocol

Neutral

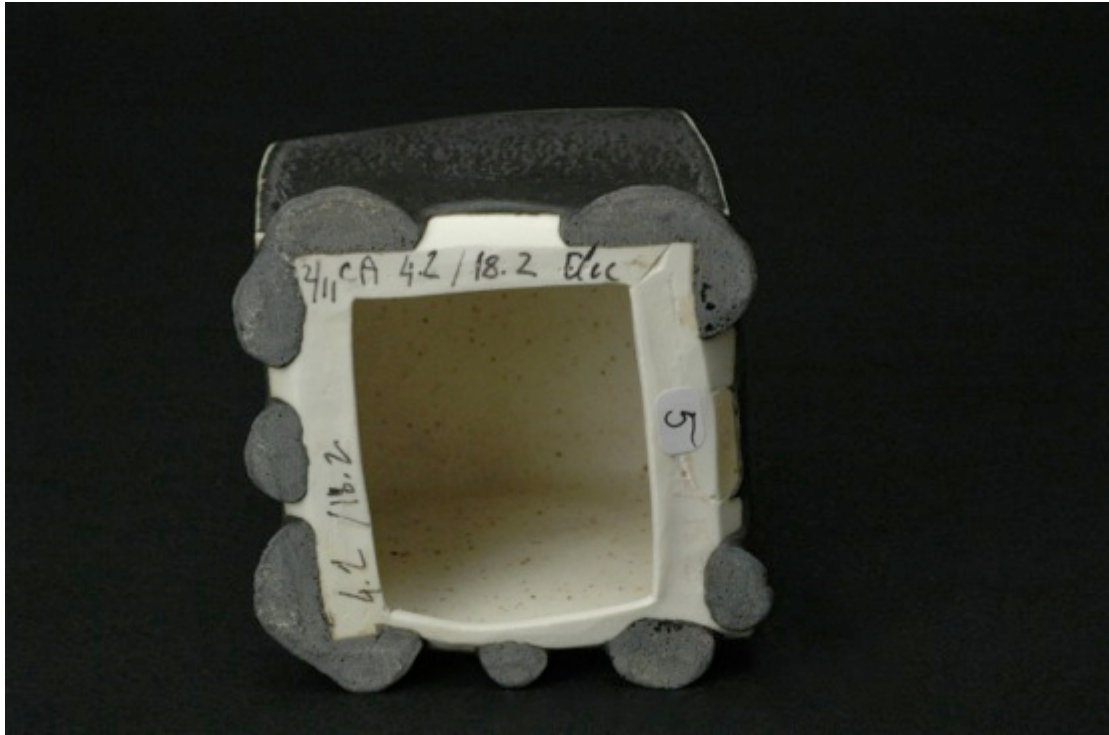
Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 4+CA 18, neutral firing, Cobblestone Nr. 5



CA 4+CA 18, neutral firing, Cobblestone Nr. 5



CA 4+CA 18, neutral firing, Cobblestone Nr. 5

CA 4 + CA 21
Cobblestone Nr. 129

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Recipe CA 21

Material	Source	Quantity
China clay	Boos (BIP)	257
Lava	Boos (Volvic)	126
Wood ash (oak)	Boos	115
Whiting	Boos (BL)	132
Barium carbonate	RCA	112
Cornish stone	RCA	155
Feldspar	Boos (FAll)	74
Rutile	RCA	29
Vanadium pentoxide	Boos	10
Total		1010

Molecular formula CA 21

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.60	0.09	0.14	0.09	0.08	0.36	1.47	0.02
%	15.96	1.68	9.88	4.25	2.38	17.50	42.21	1.24

Molecular weight: 231

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 4+CA 21, neutral firing, Cobblestone Nr. 129



CA 4+CA 21, neutral firing, Cobblestone Nr. 129

CA 4 + CA 22
Cobblestone Nr. 114

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Recipe CA 22

Material	Source	Quantity
China clay	Boos (BIP)	252
Wood ash (oak)	Boos	190
Red ochre	Boos (Dousselin)	170
Barium carbonate	RCA	160
Whiting	Boos (BL)	123
Silica	Boos (E400)	69
Chrome s	RCA	36
Total		1000

Molecular formula CA 22

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.62	0.10	0.17	0.06	0.04	0.24	1.10	0.05
%	19.66	2.22	14.82	3.27	1.44	13.94	37.29	4.81

Molecular weight: 198

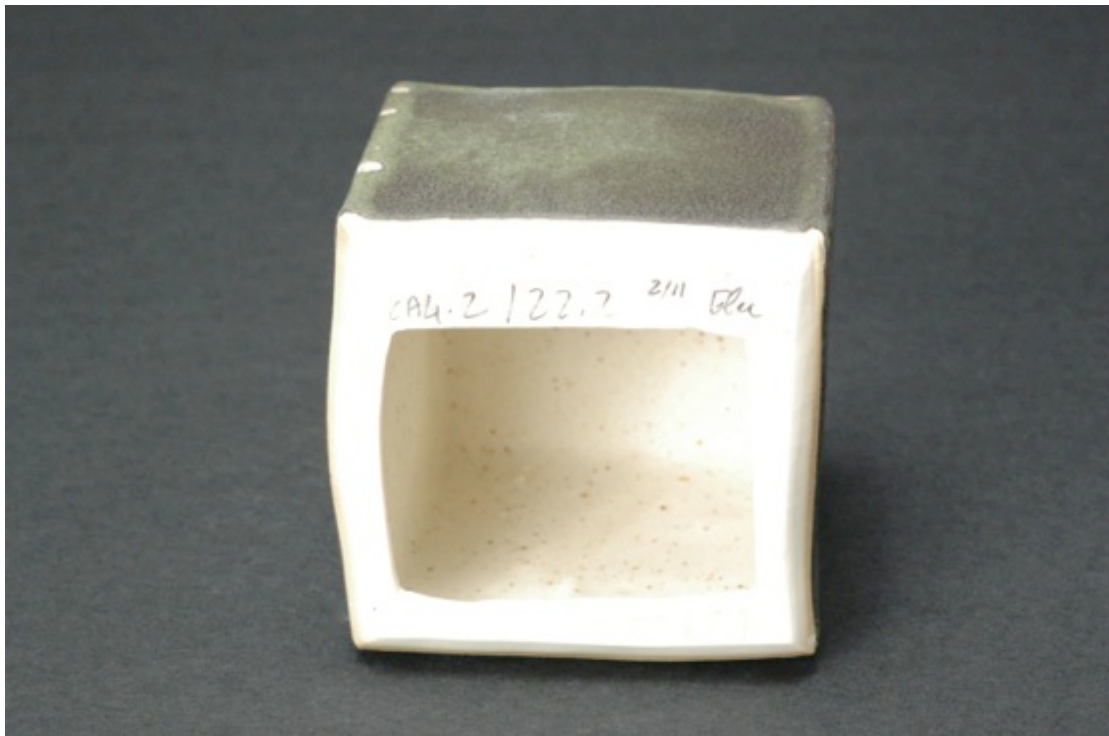
Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 4+CA 22, neutral firing, Cobblestone Nr. 114



CA 4+CA 22, neutral firing, Cobblestone Nr. 114

CA 4 + CA 23*Cobblestones Nr. 37, 64*

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Recipe CA 23

Material	Source	Quantity
China clay	Boos (BIP)	206
Cornish stone	RCA	170
Whiting	Boos (BL)	161
Lava	Boos (Volvic)	150
Wood ash (oak)	Boos	105
Red ochre	Boos (Dousselin)	85
Barium carbonate	RCA	80
Silica	Boos (E400)	35
Copper carbonate	RCA	30
Chrome oxide	RCA	18
Total		1040

Molecular formula CA 23

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.66	0.09	0.10	0.07	0.08	0.33	1.63	0.05
%	17.51	1.03	7.15	3.14	2.46	16.04	46.67	3.54

Molecular weight: 233

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1280	6h (900) 6h20 (1280)	60°C/h	1280°C



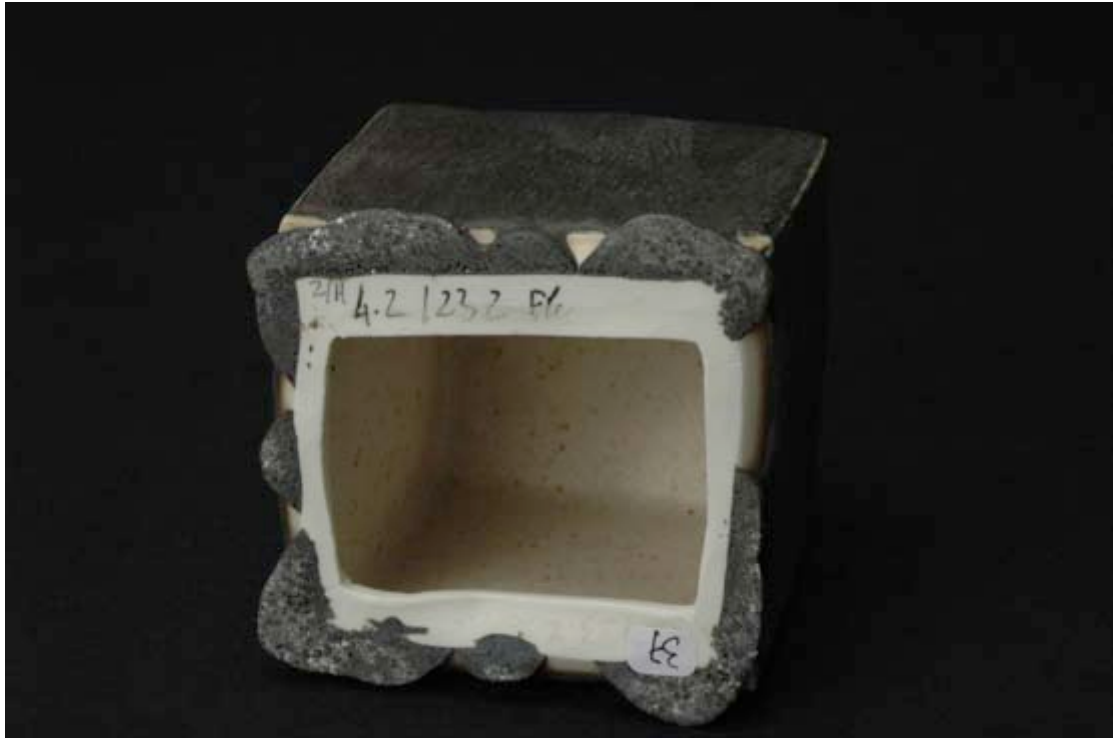
CA 4+CA 23



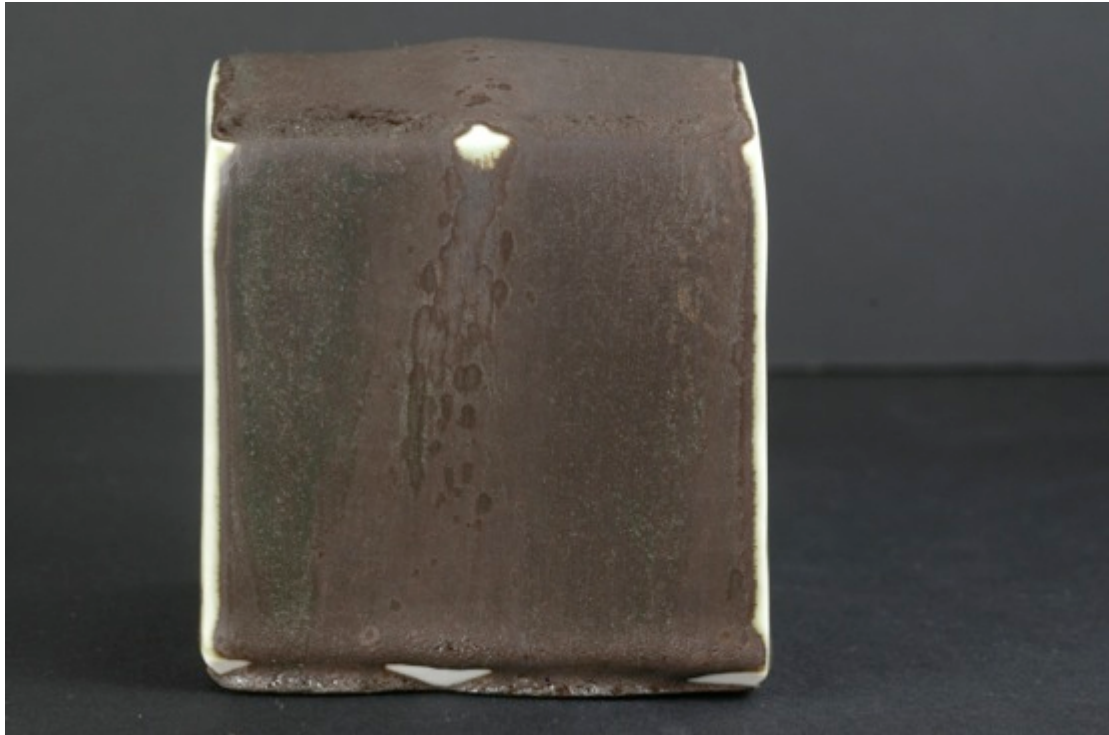
CA 4+CA 23, neutral firing, Cobblestone Nr. 37



CA 4+CA 23, neutral firing, Cobblestone Nr. 37



CA 4+CA 23, neutral firing, Cobblestone Nr. 37



CA 4+CA 23, neutral firing, Cobblestone Nr. 64



CA 4+CA 23, neutral firing, Cobblestone Nr. 64



CA 4+CA 23, neutral firing, Cobblestone Nr. 64



CA 4+CA 23, neutral firing, Cobblestone Nr. 64



CA 4+CA 23, neutral firing, Cobblestone Nr. 64



CA 4+CA 23, neutral firing, Cobblestone Nr. 64



CA 4+CA 23, neutral firing, Cobblestone Nr. 64

CA 7 + CA 4*Cobblestone Nr. 150*

Recipe CA 7

Material	Source	Quantity
China clay	Boos (BIP)	185
Cornish stone	RCA	381
Whiting	Boos (BL)	80
Lava	Boos (Volvic)	333
Wood ash (oak)	Boos	21
Total		1000

Molecular formula CA 7

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.54	0.11		0.13	0.22	0.71	3.66	0.06
%	8.28	1.21		3.26	3.67	19.69	60.20	2.54

Molecular weight: 384

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln 9	1230 Reduction 850	1280-1300°C



CA 7+CA 4, reduction firing, Cobblestone Nr. 150



CA 7+CA 4, reduction firing, Cobblestone Nr. 150



CA 7+CA 4, reduction firing, Cobblestone Nr. 150



CA 7+CA 4, reduction firing, Cobblestone Nr. 150

CA 13*Cobblestone Nr. 4, 29, 47, 100, 138*

Recipe

Material	Source	Quantity
Lava	Boos (Volvic)	500
Stoneware	Boos (St Amand)	350
Whiting	Boos (BL)	150
Total		1000

Molecular formula

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.64	0.13		0.08	0.15	0.53	3.02	0.08
%	11.55	1.66		2.45	2.93	17.23	58.21	4.27

Molecular weight: 346

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C

Reduction

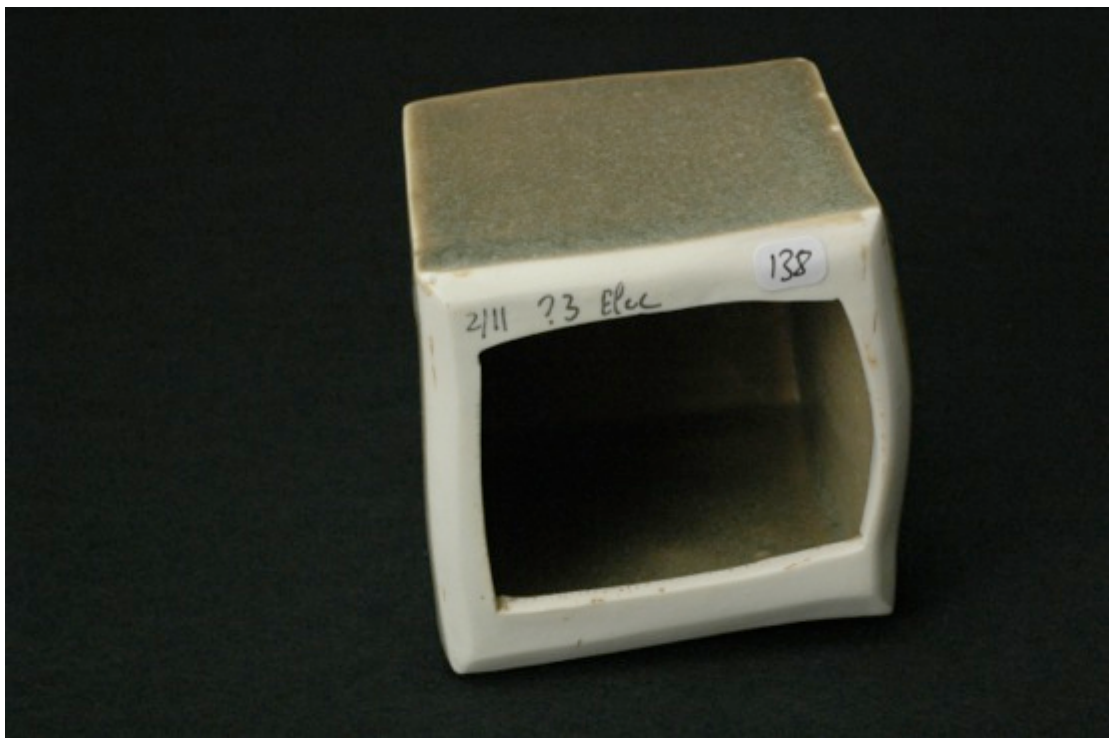
Kiln	Temperature (set)	Temperature (reached)
Gas kiln 9	1230 Reduction 850	1280-1300°C



CA 13



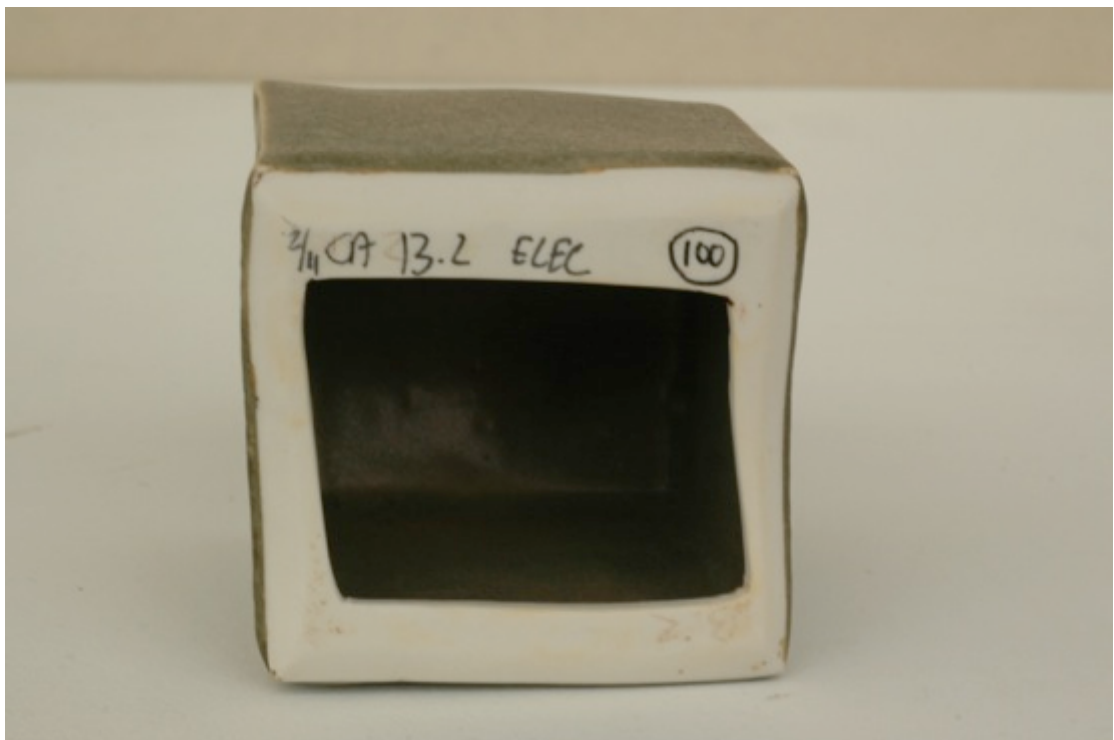
CA 13, neutral firing, Cobblestone Nr. 138



CA 13, neutral firing, Cobblestone Nr. 138



CA 13, neutral firing, Cobblestone Nr. 100



CA 13, neutral firing, Cobblestone Nr. 100



CA 13, reduction firing, Cobblestone Nr. 4



CA 13, reduction firing, Cobblestone Nr. 4



CA 13, reduction firing, Cobblestone Nr. 4



CA 13, reduction firing, Cobblestone Nr. 4



CA 13, reduction firing, Cobblestone Nr. 47



CA 13, reduction firing, Cobblestone Nr. 47



CA 13, reduction firing, Cobblestone Nr. 29



CA 13, reduction firing, Cobblestone Nr. 29

CA 13 + CA 4
Cobblestone Nr. 142

Recipe CA 13

Material	Source	Quantity
Lava	Boos (Volvic)	500
Stoneware	Boos (St Amand)	350
Whiting	Boos (BL)	150
Total		1000

Molecular formula CA 13

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.64	0.13		0.08	0.15	0.53	3.02	0.08
%	11.55	1.66		2.45	2.93	17.23	58.21	4.27

Molecular weight: 346

Recipe CA 4

Material	Source	Quantity
Feldspar	Boos (FAllemand)	400
China clay	Boos (Kaolin Beauvoir)	320
Whiting	Boos (Chaux BL)	200
Ash	Boos (Oak ash)	80
TOTAL		1000

Molecular formula CA 4

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.70	0.06	0.19	0.04	0.47	1.86	0.00
%	17.51	1.03	8.05	1.07	21.49	49.54	0.27

Molecular weight: 249

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 13+CA 4, neutral firing, Cobblestone Nr. 142



CA 13+CA 4, neutral firing, Cobblestone Nr. 142



CA 13+CA 4, neutral firing, Cobblestone Nr. 142

CA 17*Cobblestones Nr. 21, 86*

Recipe

Material	Source	Quantity
China clay	Boos (BIP)	370
Barium carbonate	RCA	230
Wood ash (oak)	Boos	216
Feldspar	Boos (FAII)	152
Whiting	Boos (BL)	32
Copper carbonate	RCA	60
Total		1060

Molecular formula

	CaO	MgO	BaO	K₂O	Na₂O	Al₂O₃	SiO₂	Fe₂O₃
Formula	0.48	0.11	0.24	0.11	0.05	0.34	1.05	0.00
%	14.52	2.29	20.16	5.83	1.71	18.54	34.01	0.38

Molecular weight: 199

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 17



CA 17, neutral firing, Cobblestone Nr. 21



CA 17, neutral firing, Cobblestone Nr. 21



CA 17, neutral firing, Cobblestone Nr. 21



CA 17, neutral firing, Cobblestone Nr. 86



CA 17, neutral firing, Cobblestone Nr. 86

CA 21*Cobblestones Nr.15, 52, 53, 61, 192*

Recipe CA 21

Material	Source	Quantity
China clay	Boos (BIP)	257
Lava	Boos (Volvic)	126
Wood ash (oak)	Boos	115
Whiting	Boos (BL)	132
Barium carbonate	RCA	112
Cornish stone	RCA	155
Feldspar	Boos (FAII)	74
Rutile	RCA	29
Vanadium pentoxide	Boos	10
Total		1010

Molecular formula CA 21

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.60	0.09	0.14	0.09	0.08	0.36	1.47	0.02
%	15.96	1.68	9.88	4.25	2.38	17.50	42.21	1.24

Molecular weight: 231

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln 9	1230 Reduction 850	1280-1300°C

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 21



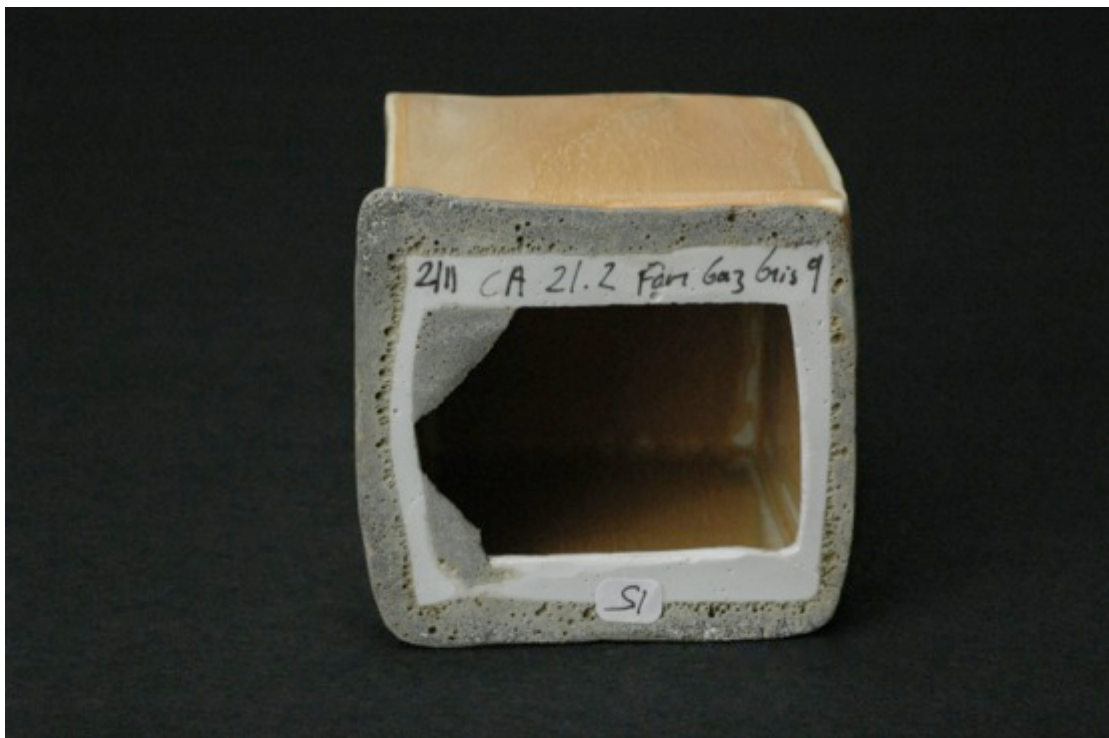
CA 21, reduction firing, Cobblestone Nr. 15



CA 21, reduction firing, Cobblestone Nr. 15



CA 21, reduction firing, Cobblestone Nr. 15



CA 21, reduction firing, Cobblestone Nr. 15



CA 21, reduction firing, Cobblestone Nr. 53



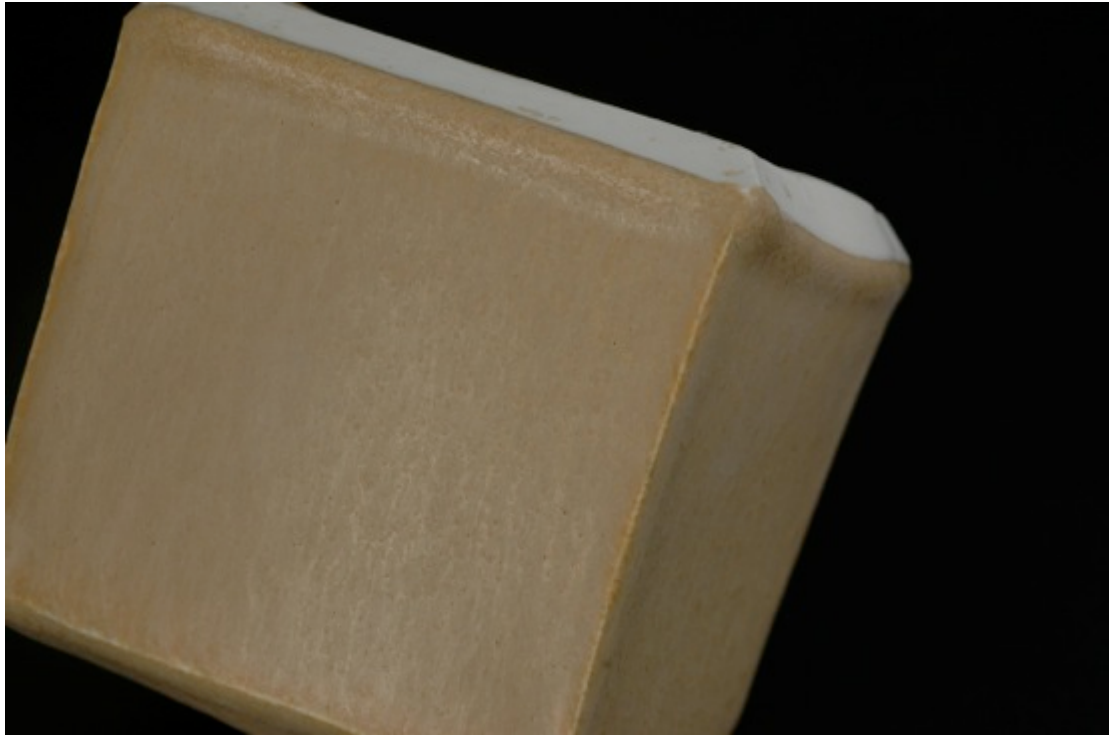
CA 21, reduction firing, Cobblestone Nr. 53



CA 21, reduction firing, Cobblestone Nr. 53



CA 21, reduction firing, Cobblestone Nr. 53



CA 21, reduction firing, Cobblestone Nr. 53



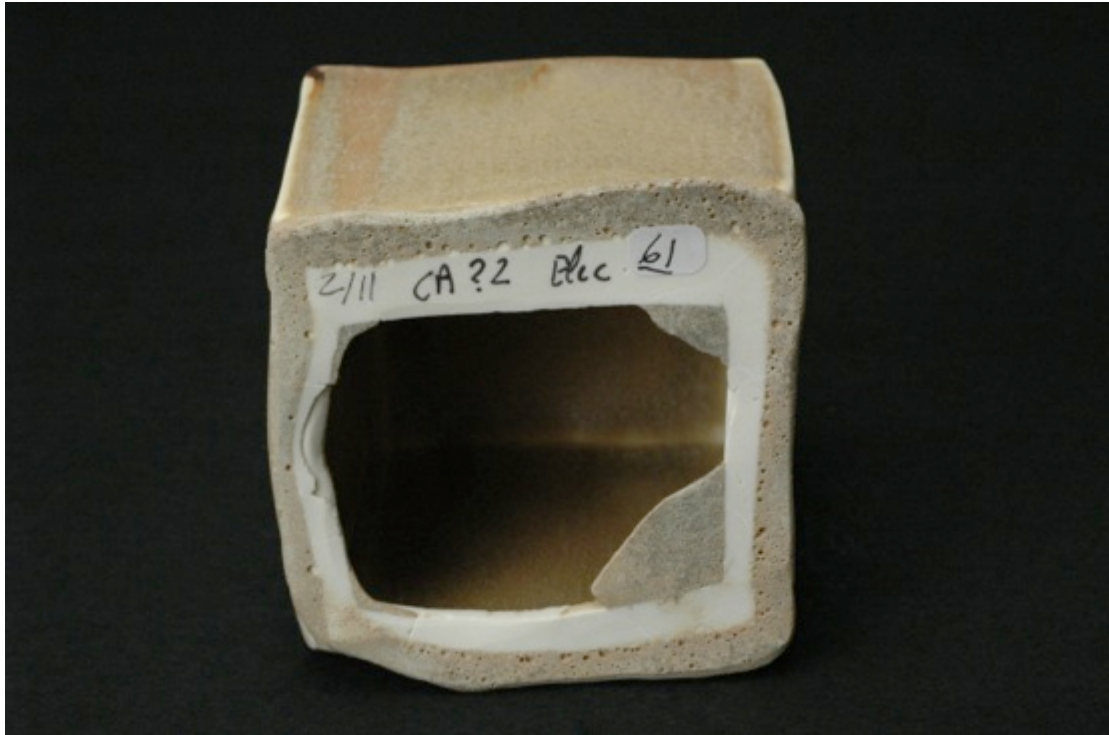
CA 21, reduction firing, Cobblestone Nr. 53



CA 21, neutral firing, Cobblestone Nr. 61



CA 21, neutral firing, Cobblestone Nr. 61



CA 21, neutral firing, Cobblestone Nr. 61



CA 21, reduction firing, Cobblestone Nr. 192



CA 21, reduction firing, Cobblestone Nr. 192



CA 21, reduction firing, Cobblestone Nr. 192



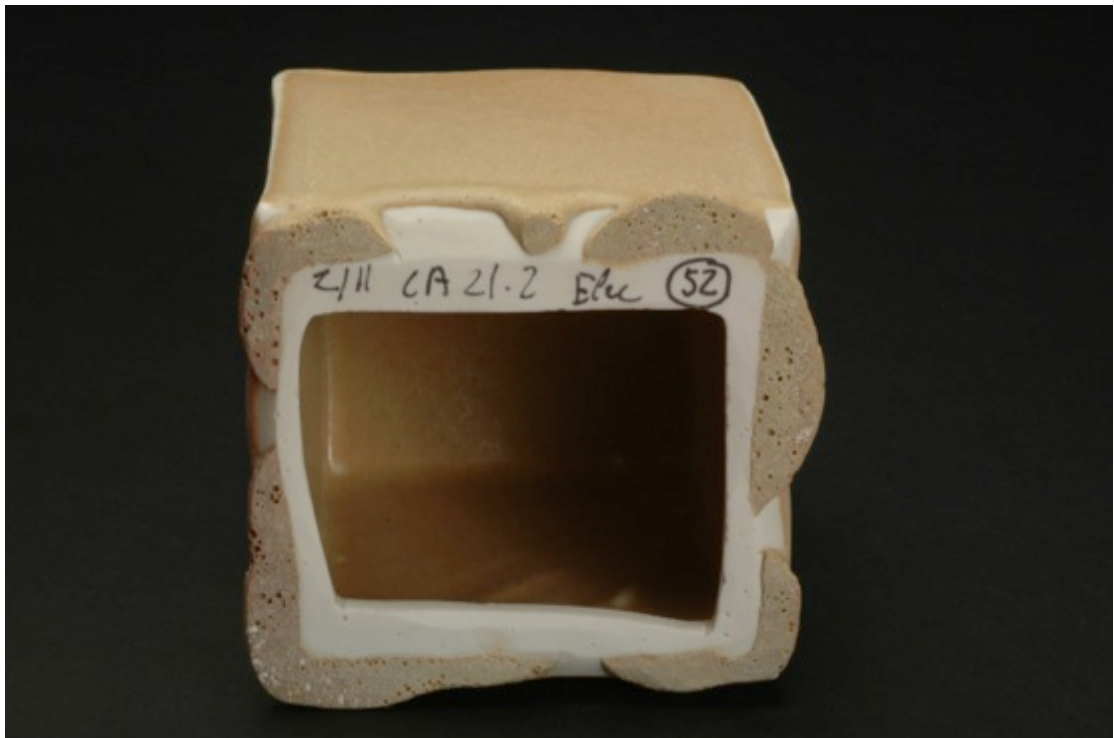
CA 21, neutral firing, Cobblestone Nr. 52



CA 21, neutral firing, Cobblestone Nr. 52



CA 21, neutral firing, Cobblestone Nr. 52



CA 21, neutral firing, Cobblestone Nr. 52

CA 21 + CA 22
Cobblestone Nr. 103

Recipe CA 21

Material	Source	Quantity
China clay	Boos (BIP)	257
Lava	Boos (Volvic)	126
Wood ash (oak)	Boos	115
Whiting	Boos (BL)	132
Barium carbonate	RCA	112
Cornish stone	RCA	155
Feldspar	Boos (FAII)	74
Rutile	RCA	29
Vanadium pentoxide	Boos	10
Total		1010

Molecular formula CA 21

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.60	0.09	0.14	0.09	0.08	0.36	1.47	0.02
%	15.96	1.68	9.88	4.25	2.38	17.50	42.21	1.24

Molecular weight: 231

Recipe CA 22

Material	Source	Quantity
China clay	Boos (BIP)	252
Wood ash (oak)	Boos	190
Red ochre	Boos (Dousselin)	170
Barium carbonate	RCA	160
Whiting	Boos (BL)	123
Silica	Boos (E400)	69
Chrome oxide	RCA	36
Total		1000

Molecular formula CA 22

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.62	0.10	0.17	0.06	0.04	0.24	1.10	0.05
%	19.66	2.22	14.82	3.27	1.44	13.94	37.29	4.81

Molecular weight: 198

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 21+CA 22, neutral firing, Cobblestone Nr. 103



CA 21+CA 22, neutral firing, Cobblestone Nr. 103



CA 21+CA 22, neutral firing, Cobblestone Nr. 103



CA 21+CA 22, neutral firing, Cobblestone Nr. 103

CA 22*Cobblestone Nr. 74*

Recipe CA 22

Material	Source	Quantity
China clay	Boos (BIP)	252
Wood ash (oak)	Boos	190
Red ochre	Boos (Dousselin)	170
Barium carbonate	RCA	160
Whiting	Boos (BL)	123
Silica	Boos (E400)	69
Chrome oxide	RCA	36
Total		1000

Molecular formula CA 22

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.62	0.10	0.17	0.06	0.04	0.24	1.10	0.05
%	19.66	2.22	14.82	3.27	1.44	13.94	37.29	4.81

Molecular weight: 198

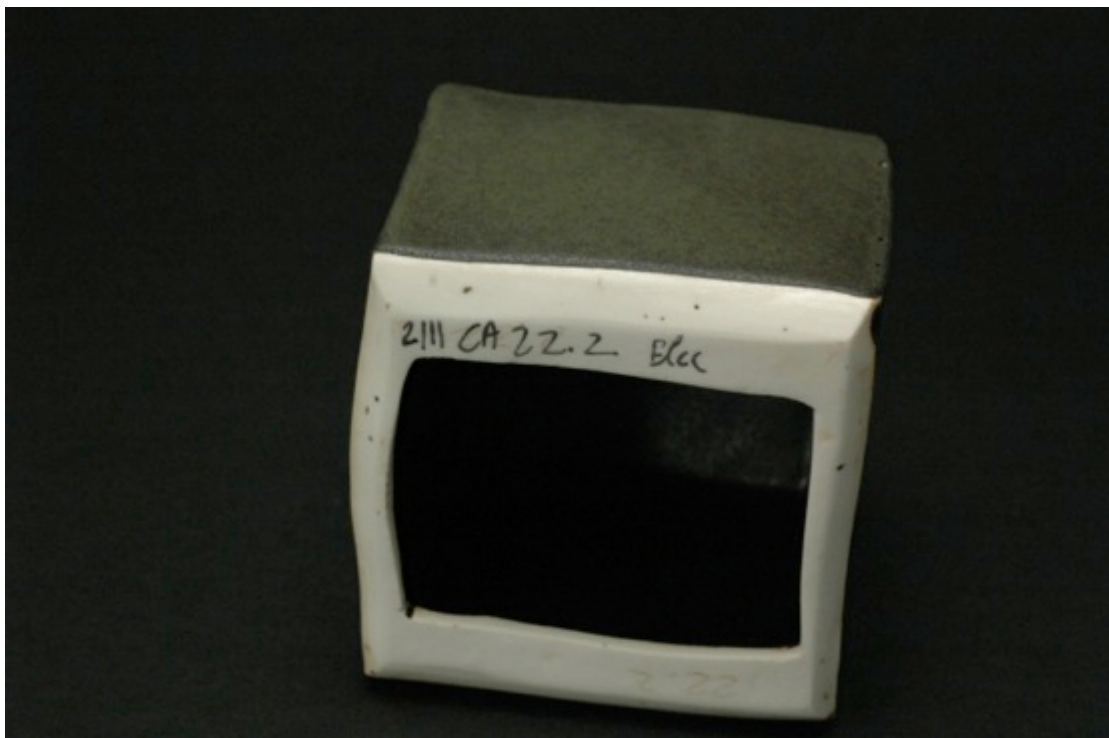
Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 22, neutral firing, Cobblestone Nr. 74



CA 22, neutral firing, Cobblestone Nr. 74

CA 23*Cobblestone Nr. 167*

Recipe CA 23

Material	Source	Quantity
China clay	Boos (BIP)	208
Cornish stone	RCA	171
Whiting	Boos (BL)	163
Lava	Boos (Volvic)	151
Wood ash (oak)	Boos	106
Red ochre	Boos (Dousselin)	86
Barium carbonate	RCA	81
Silica	Boos (E400)	35
Copper carbonate	RCA	30
Chrome oxide	RCA	18
Total		1048

Molecular formula CA 23

	CaO	MgO	BaO	K₂O	Na₂O	Al₂O₃	SiO₂	Fe₂O₃
Formula	0.66	0.09	0.10	0.07	0.08	0.33	1.63	0.05
%	17.53	1.70	7.15	3.14	2.46	16.04	46.66	3.54

Molecular weight: 233

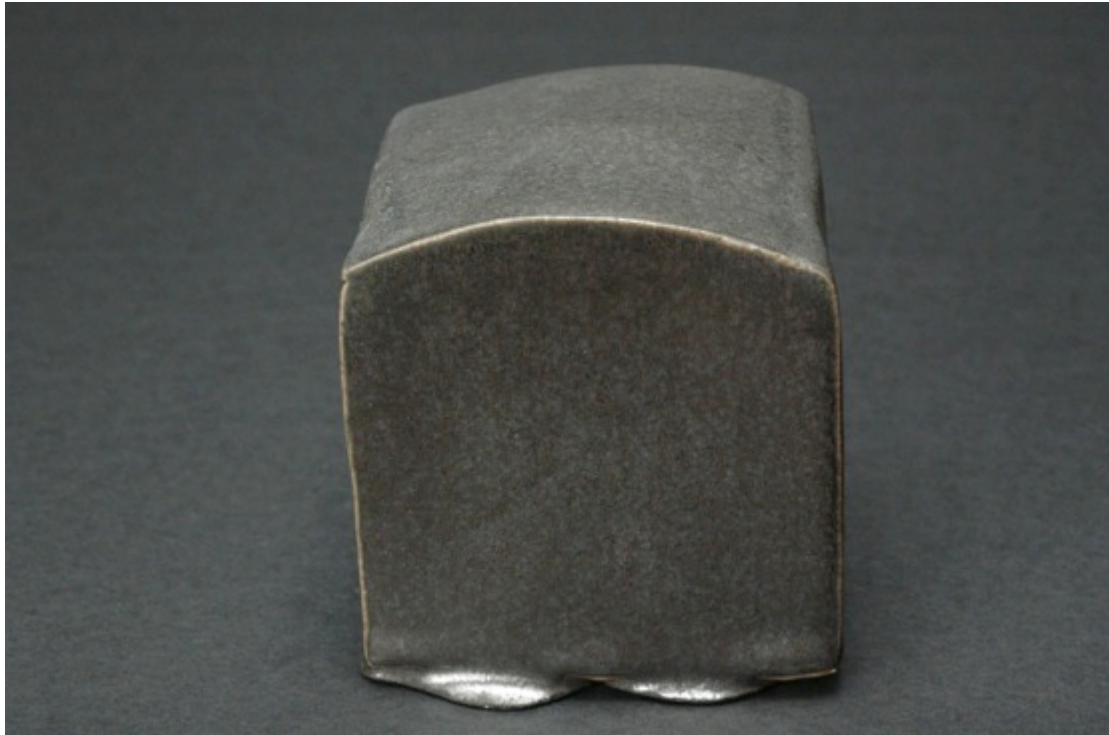
Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 23, neutral firing, Cobblestone Nr. 167



CA 23, neutral firing, Cobblestone Nr. 167



CA 23, neutral firing, Cobblestone Nr. 167



CA 23, neutral firing, Cobblestone Nr. 167

CA 23 + CA 17
Cobblestone Nr. 28

Recipe CA 23

Material	Source	Quantity
China clay	Boos (BIP)	208
Cornish stone	RCA	171
Whiting	Boos (BL)	163
Lava	Boos (Volvic)	151
Wood ash (oak)	Boos	106
Red ochre	Boos (Dousselin)	86
Barium carbonate	RCA	81
Silica	Boos (E400)	35
Copper carbonate	RCA	30
Chrome oxide	RCA	18
Total		1048

Molecular formula CA 23

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.66	0.09	0.10	0.07	0.08	0.33	1.63	0.05
%	17.53	1.70	7.15	3.14	2.46	16.04	46.66	3.54

Molecular weight: 233

Recipe CA 17

Material	Source	Quantity
China clay	Boos (BIP)	370
Barium carbonate	RCA	230
Wood ash (oak)	Boos	216
Feldspar	Boos (FAlI)	152
Whiting	Boos (BL)	32
Copper carbonate	RCA	60
Total		1060

Molecular formula CA 17

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.48	0.11	0.24	0.11	0.05	0.34	1.05	0.00
%	14.52	2.29	20.16	5.83	1.71	18.54	34.01	0.38

Molecular weight: 199

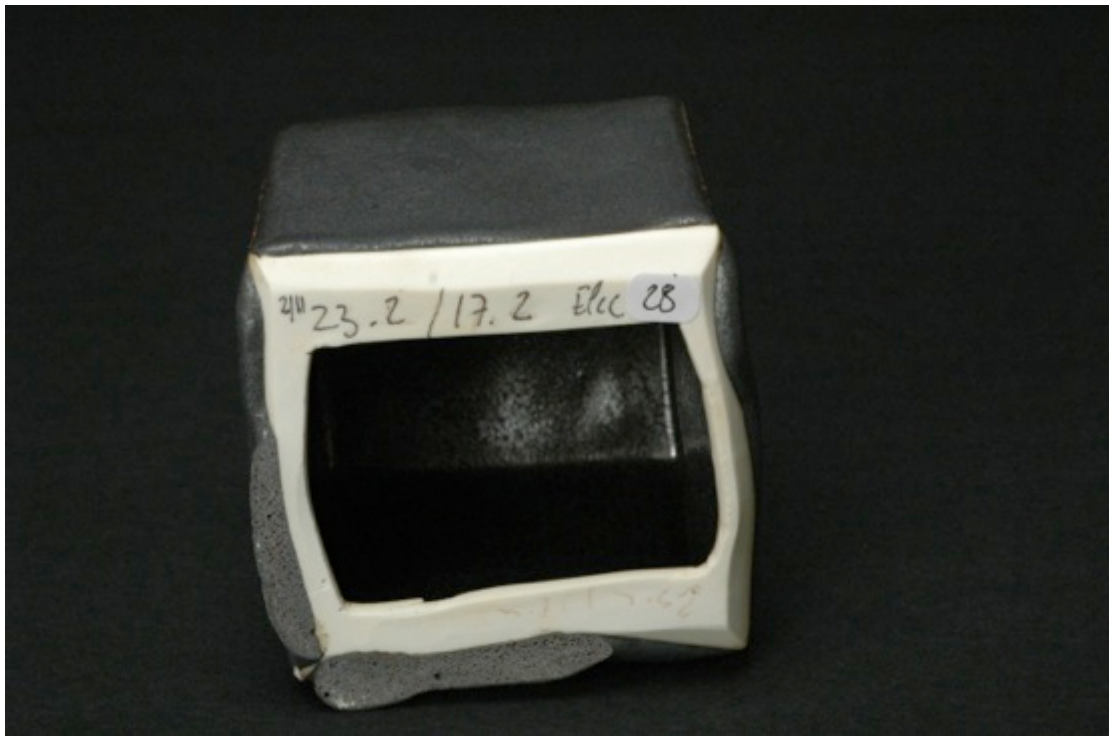
Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	6h (900) 6h20 (1275)	60°C/h	1280°C



CA 23+CA 17, neutral firing, Cobblestone Nr. 28



CA 23+CA 17, neutral firing, Cobblestone Nr. 28

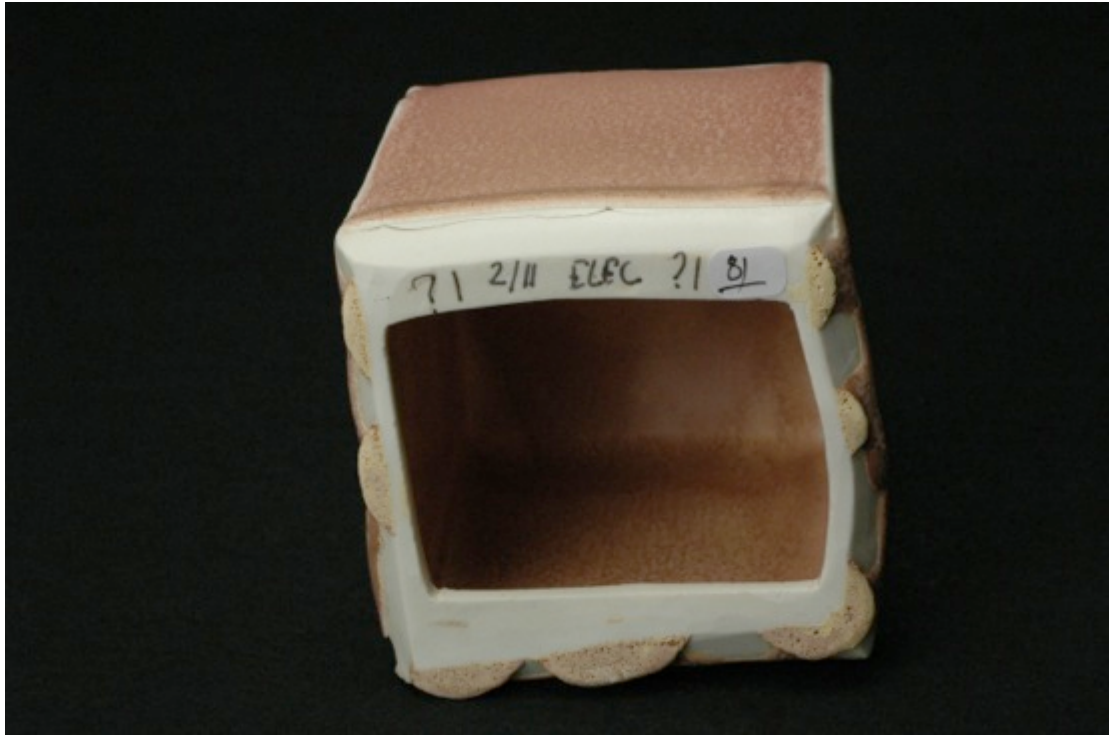
UNKNOWN GLAZE CA ?1
Cobblestone Nr. 81



CA ?1, neutral firing, Cobblestone Nr. 81



CA ?1, neutral firing, Cobblestone Nr. 81



CA ?1, neutral firing, Cobblestone Nr. 81

UNKNOWN GLAZE CA ?1 + CA 4
Cobblestone Nr. 87



CA ?1+CA 4, neutral firing, Cobblestone Nr. 87



CA ?1+CA 4, neutral firing, Cobblestone Nr. 87

CELADONS

Glaze Nr. 221

Cobblestones Nr. 3, 8, 19, 25, 46, 58, 67, 69-1, 93, 98, 104, 153, 166

Source: Yingqing glaze chemical analysis (Wood, 1999, p.58). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	29.8
Feldspar	Boos (FAllemand)	27.8
Whiting	Boos (Chaux BL)	20.4
Molochite	RCA	12.6
China clay	Boos (Kaolin Beauvoir)	6.3
Dolomite	Boos (DRB20)	2.5
Ochre	Boos (Dousselin)	0.6
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.76	0.06	0.16	0.02	0.43	3.44	0.01
%	13.62	0.79	4.75	0.33	14.13	65.94	0.41

Molecular weight: 351

Firing protocol

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	>Cone 9 (1280°C)

Position: Floor 2/Front shelf/Front part/Right half/Middle

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	>Cone 10 (1300°C)

Position: Floor 1/Front shelf/Front part/Left half/Left side

Stained porcelain body

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Position: not relevant for gas kiln Nr. 9 as it is homogeneous.



221



221, irregular reduction firing, Cobblestone Nr. 19



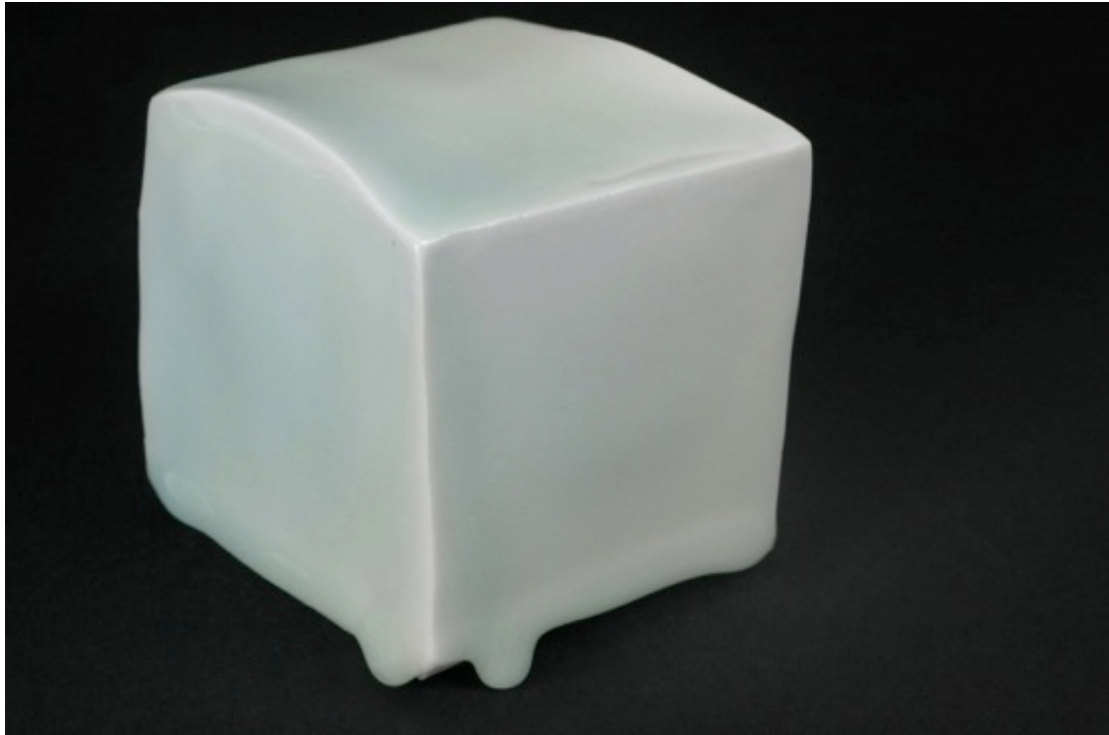
221, irregular reduction firing, Cobblestone Nr. 19



221, irregular reduction firing, Cobblestone Nr. 19



221, irregular reduction firing, Cobblestone Nr. 19



221, irregular reduction firing, Cobblestone Nr. 153



221, irregular reduction firing, Cobblestone Nr. 153



221, neutral firing, Cobblestone Nr. 93



221, neutral firing, Cobblestone Nr. 93



221, neutral firing, Cobblestone Nr. 98



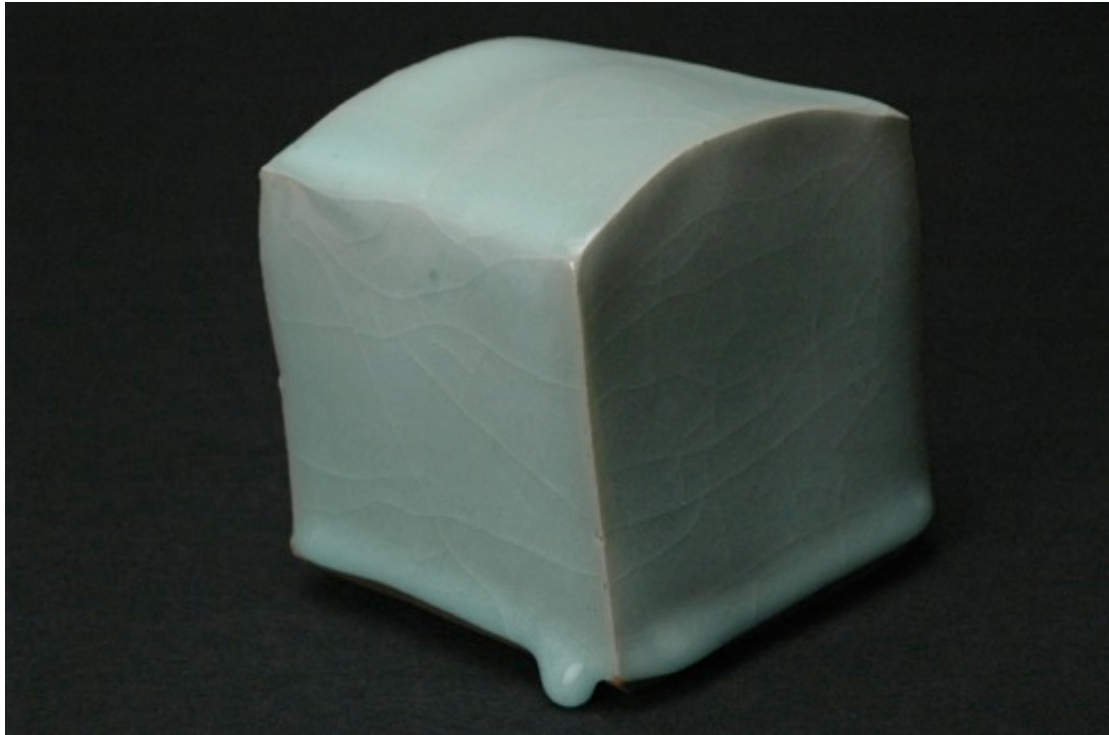
221, neutral firing, Cobblestone no Nr.



221, neutral firing, Cobblestone no Nr.



221, neutral firing, Cobblestone no Nr.



221, reduction firing, stained porcelain body, Cobblestone Nr. 104



221, reduction firing, stained porcelain body, Cobblestone Nr. 104

Description:

- Monochrome glaze
- Celadon type (Yingqing)
- Shiny and transparent yet resembles milky glass or translucent white marble (Wood, 1999, p.71) where thick
- Smooth surface
- Sense of volume rather than sense of surface. Analysing the use of Yingqing glazes on Dehua porcelain, Nigel Wood comments: “ a wonderful integration of glaze and clay that gives the illusion of single translucent material” (Wood, 1999, p.71).
- Localized neutral on some parts creates a sense of floating through indecisive dull blue-green-yellow. Sense of depth triggered by hardly perceptible nuances in shades and tones
- Fully oxidised pieces convey similar sense of volume, and of single translucent material
- Localized crawling unveils underlying body, yet these imperfections enhance floating effect by providing a vortex for reverie
- Clear sound (no body cracks)

Glaze Nr. 222*Cobblestones Nr. 83, 84, 89, 117, 182, 183, 184*

Source: Yingqing glaze chemical analysis - table 14, Jingdezhen Yingqing 1 (Wood, 1999, p.51). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	30.9
Feldspar	Boos (FAllemand)	22.0
Whiting	Boos (Chaux BL)	19.5
Molochite	RCA	13.9
China clay	Boos (Kaolin Beauvoir)	7.0
Dolomite	Boos (DRB20)	6.0
Ochre	Boos (Dousselin)	0.7
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.75	0.12	0.12	0.01	0.40	3.13	0.01
%	14.46	1.63	3.94	0.27	14.17	65.02	0.46

Molecular weight: 328

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1260-1280°C

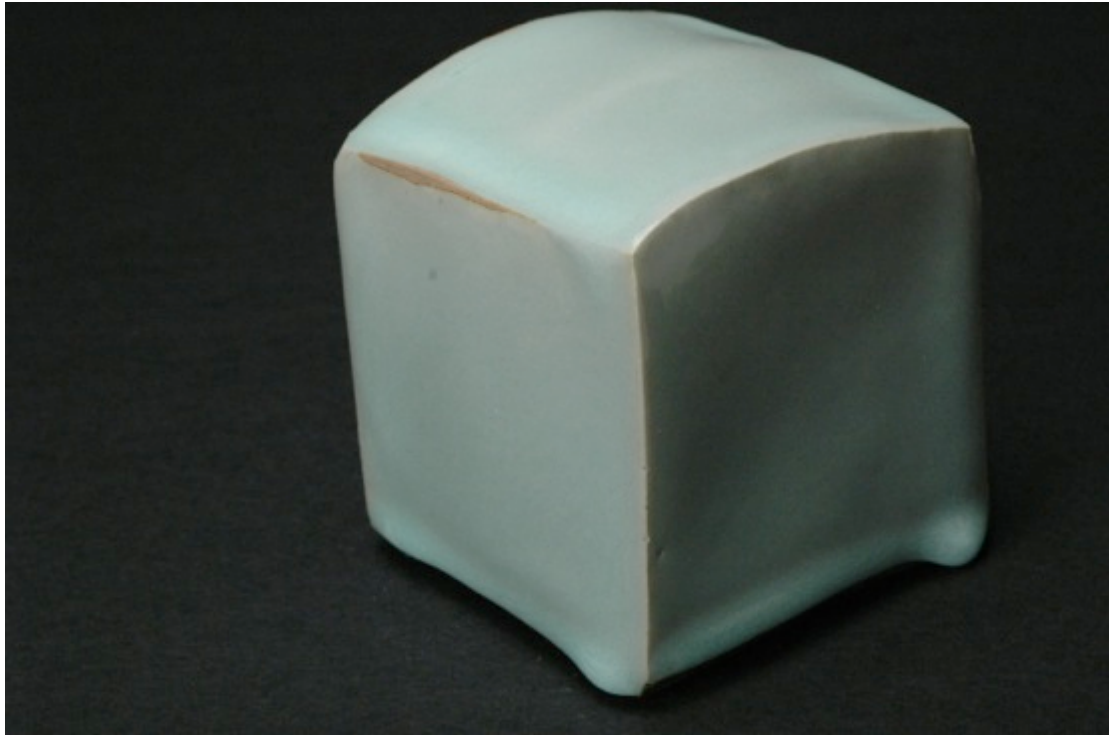
Position: Floor 3/Front shelf/Front row



222



222



222, reduction firing, stained porcelain body, Cobblestone Nr. 89



222, reduction firing, stained porcelain body, Cobblestone Nr. 89



222, neutral firing, white porcelain body, Cobblestone Nr. 183



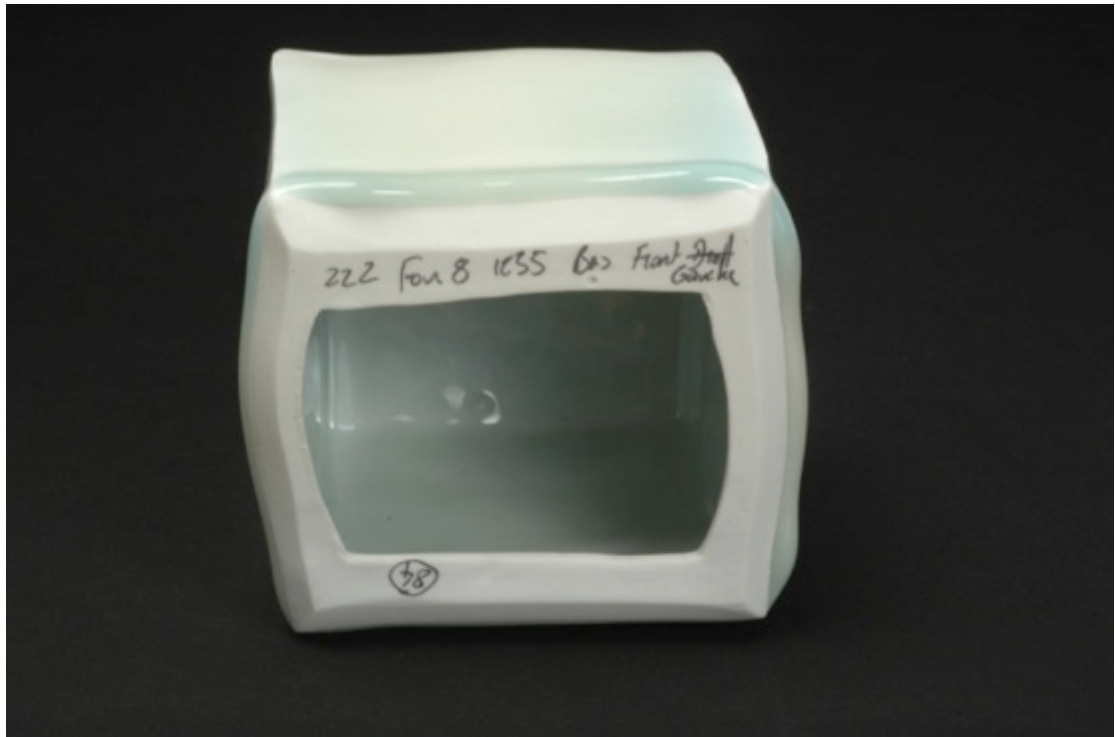
222, neutral firing, white porcelain body, Cobblestone Nr. 183



222, irregular reduction firing, Cobblestone Nr. 84



222, irregular reduction firing, Cobblestone Nr. 84



222, irregular reduction firing, Cobblestone Nr. 84

Glaze Nr. 231

Cobblestones Nr. 12, 123, 160

Source: Longquan glaze chemical analysis - table 26, S.Song 1 (Wood, 1999, p.76). I reverse-engineered the recipe of the glaze using nepheline syenite as a main ingredient.

Recipe

Material	Source	Quantity
Nepheline syenite	Boos (A200)	53.5
Silica	Boos (SMill E400)	28.1
Whiting	Boos (Chaux BL)	10.2
Dolomite	Boos (DRB20)	4.8
Ochre	Boos (Dousselin)	3.4
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.49	0.10	0.10	0.31	0.47	3.73	0.02
%	8.11	1.21	2.79	5.80	14.28	66.77	1.01

Molecular weight: 364

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Irregular reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	>Cone 10 (1300°C)



231



231, reduction firing, Cobblestone Nr. 12



231, reduction firing, Cobblestone Nr. 12



231, reduction firing, Cobblestone Nr. 12



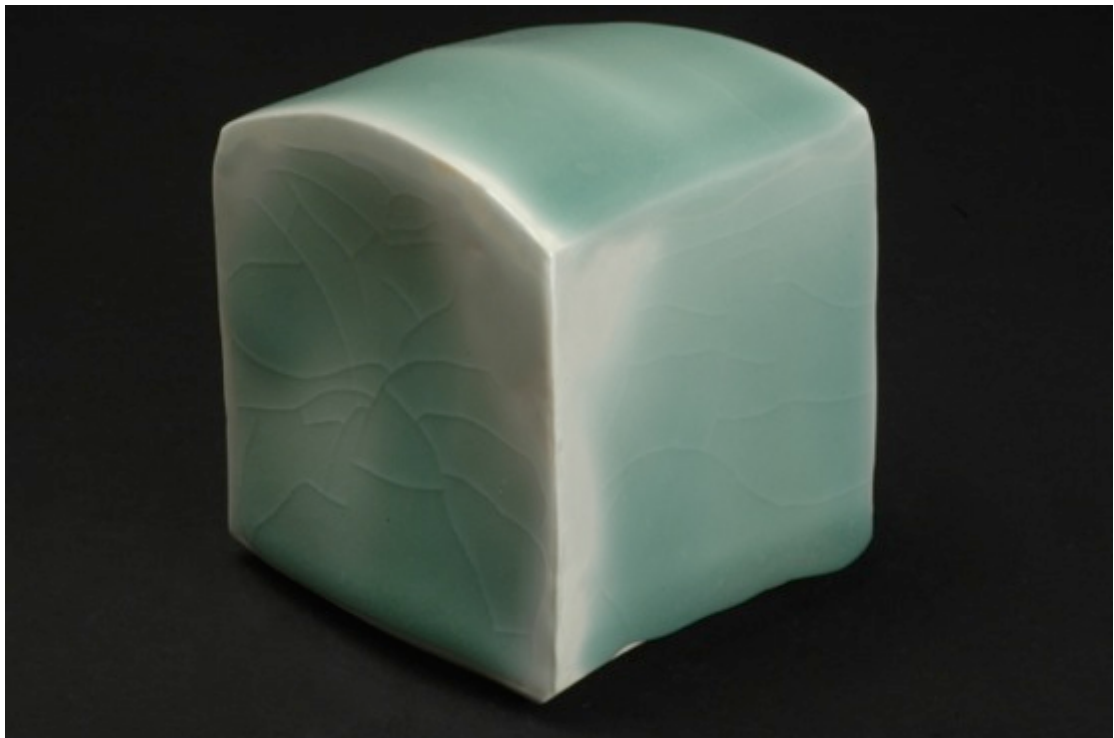
231, irregular reduction firing, Cobblestone Nr. 123



231, irregular reduction firing, Cobblestone Nr. 123



231, reduction, white porcelain, Cobblestone Nr. 160



231, reduction, white porcelain, Cobblestone Nr. 160



231, reduction, white porcelain, Cobblestone Nr. 160

Glaze Nr. 232
Cobblestone Nr. 106

Source: Longquan glaze chemical analysis - table 26, S.Song 1 (Wood, 1999, p.76). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	29.6
Feldspar	Boos (FAllemand)	29.5
Whiting	Boos (Chaux BL)	15.8
Molochite	RCA	10.4
China clay	Boos (Kaolin Beauvoir)	7.5
Dolomite	Boos (DRB20)	4.4
Ochre	Boos (Dousselin)	2.7
TOTAL		100

Molecular formula

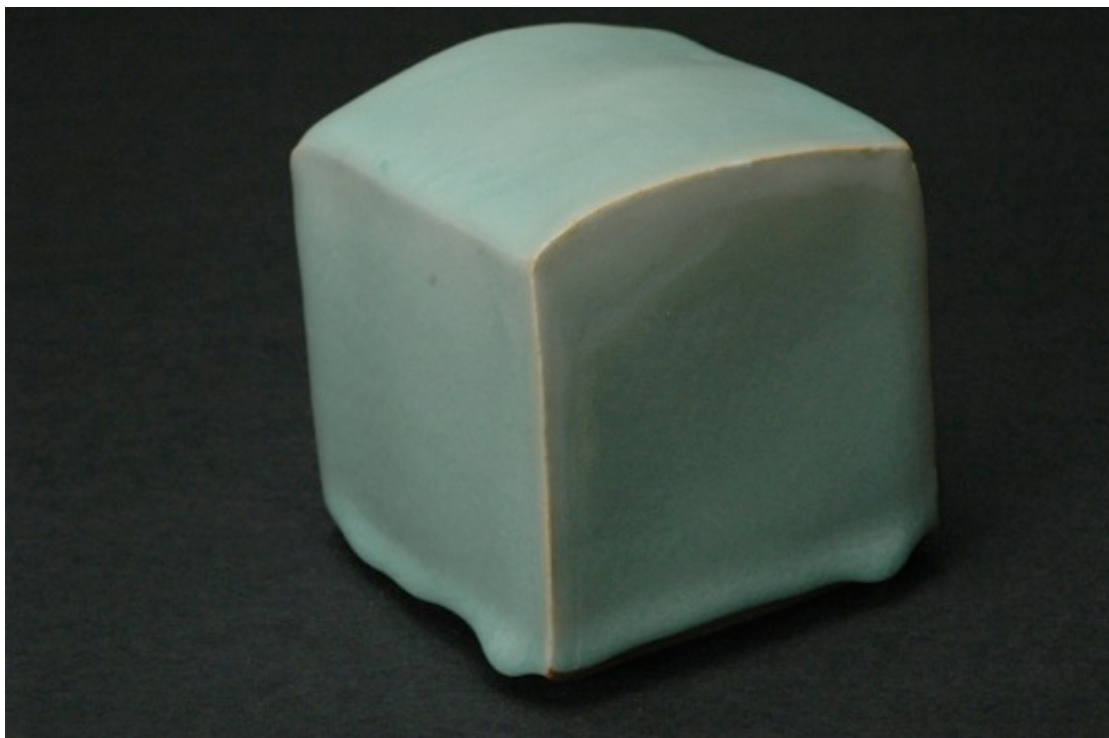
	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.69	0.10	0.18	0.02	0.48	3.81	0.02
%	10.17	1.08	4.44	0.31	12.78	59.76	0.90

Molecular weight: 380

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



232, reduction firing, Cobblestone Nr. 106



232, reduction firing, Cobblestone Nr. 106

Glaze Nr. 233*Cobblestones Nr. 13, 40, 193, 194*

Source: Longquan glaze chemical analysis - table 26, S.Song 2 (Wood, 1999, p.76). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	32.0
Feldspar	Boos (FAllemand)	29.2
Whiting	Boos (Chaux BL)	12.8
Molochite	RCA	14.0
China clay	Boos (Kaolin Beauvoir)	7.7
Dolomite	Boos (DRB20)	2.0
Ochre	Boos (Dousselin)	2.3
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.67	0.07	0.23	0.02	0.68	5.17	0.03
%	8.43	0.60	4.85	0.34	15.46	69.35	0.90

Molecular weight: 482

Firing protocol

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	>Cone 10 (1300°C)



233



233



233, reduction firing, stained porcelain body, Cobblestone Nr. 40



233, reduction firing, stained porcelain body, Cobblestone Nr. 40



233, reduction firing, stained porcelain body, Cobblestone Nr. 40



233, reduction firing, stained porcelain body, Cobblestone Nr. 40



233, reduction firing, white porcelain body, Cobblestone Nr. 13



233, reduction firing, white porcelain body, Cobblestone Nr. 13



233, reduction firing, white porcelain body, Cobblestone Nr. 13

Glaze Nr. 234
Cobblestone Nr.134

Source: Longquan glaze chemical analysis - table 26, Yuan (Wood, 1999, p.76). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Feldspar	Boos (FAllemand)	39.2
Silica	Boos (SMill E400))	24.3
Molochite	RCA	13.4
Whiting	Boos (Chaux BL)	10.1
China clay	Boos (Kaolin Beauvoir)	6.2
Ochre	Boos (Dousselin)	4.5
Dolomite	Boos (DRB20)	2.0
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.58	0.07	0.32	0.03	0.00	0.78	5.34	0.04	0.00
%	6.81	0.60	6.25	0.44	0.02	16.71	67.45	1.50	0.02

Molecular weight: 507

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



234, reduction firing, stained porcelain body, Cobblestone Nr. 134



234, reduction firing, stained porcelain body, Cobblestone Nr. 134



234, reduction firing, stained porcelain body, Cobblestone Nr. 134

Glaze Nr. 235*Cobblestones Nr. 32, 174, 197*

Source: Longquan glaze chemical analysis - table 26, Ming (Wood, 1999, p.76). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Feldspar	Boos (FAllemand)	45.7
Silica	Boos (SMill E400))	23.5
Molochite	RCA	8.4
Whiting	Boos (Chaux BL)	6.4
China clay	Boos (Kaolin Beauvoir)	4.7
Ochre	Boos (Dousselin)	4.3
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.47	0.18	0.32	0.03	0.00	0.62	4.72	0.04	0.00
%	6.32	1.71	7.11	0.50	0.01	15.05	67.84	1.40	0.02

Molecular weight: 449

Firing protocol

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1290-1300°C



235



235, irregular reduction firing, white porcelain body, Cobblestone Nr. 32



235, irregular reduction firing, white porcelain body, Cobblestone Nr. 32



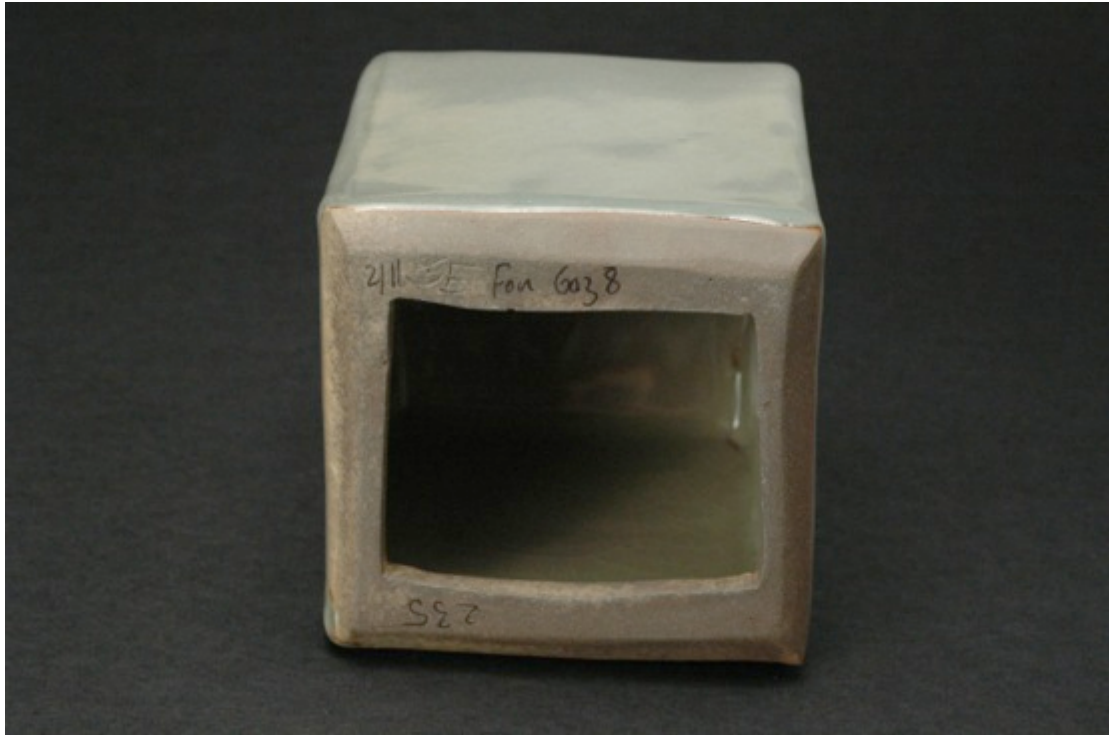
235, irregular reduction firing, white porcelain body, Cobblestone Nr. 32



235, irregular reduction firing, stained porcelain body, Cobblestone Nr. 197



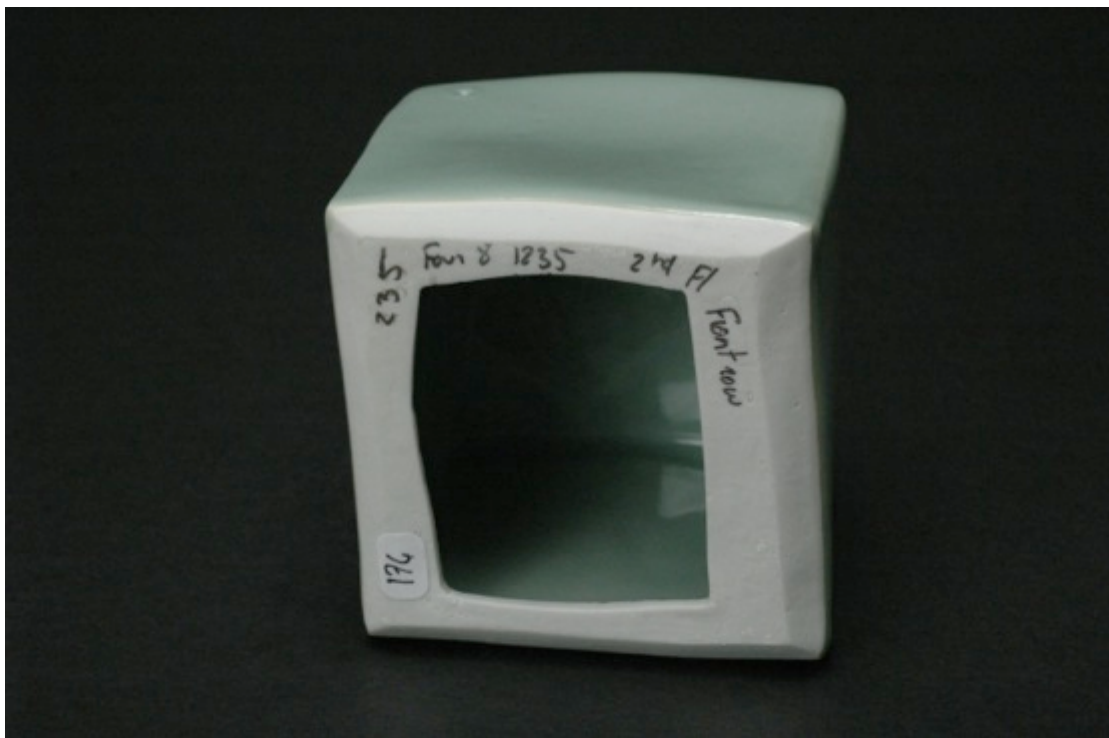
235, irregular reduction firing, stained porcelain body, Cobblestone Nr. 197



235, irregular reduction firing, stained porcelain body, Cobblestone Nr. 197



235, reduction, white porcelain body, Cobblestone Nr. 174



235, reduction, white porcelain body, Cobblestone Nr. 174

Glaze Nr. 236
Cobblestone Nr. 99

Source: Longquan celadon glaze chemical analysis - Southern Song (Wood, 1999, p.78). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Feldspar	Boos (FAllemand)	24.9
Silica	Boos (SMill E400))	19.4
Whiting	Boos (Chaux BL)	19.2
Molochite	RCA	14.5
China clay	Boos (Kaolin Beauvoir)	7.9
Ochre	Boos (Dousselin)	6.8
Dolomite	Boos (DRB20)	6.0
Bone ash	RCA	1.1
TOTAL		99.8

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.73	0.04	0.21	0.02	0.00	0.56	4.55	0.02	0.00
%	10.31	0.40	4.88	0.34	0.02	14.35	68.83	0.70	0.14

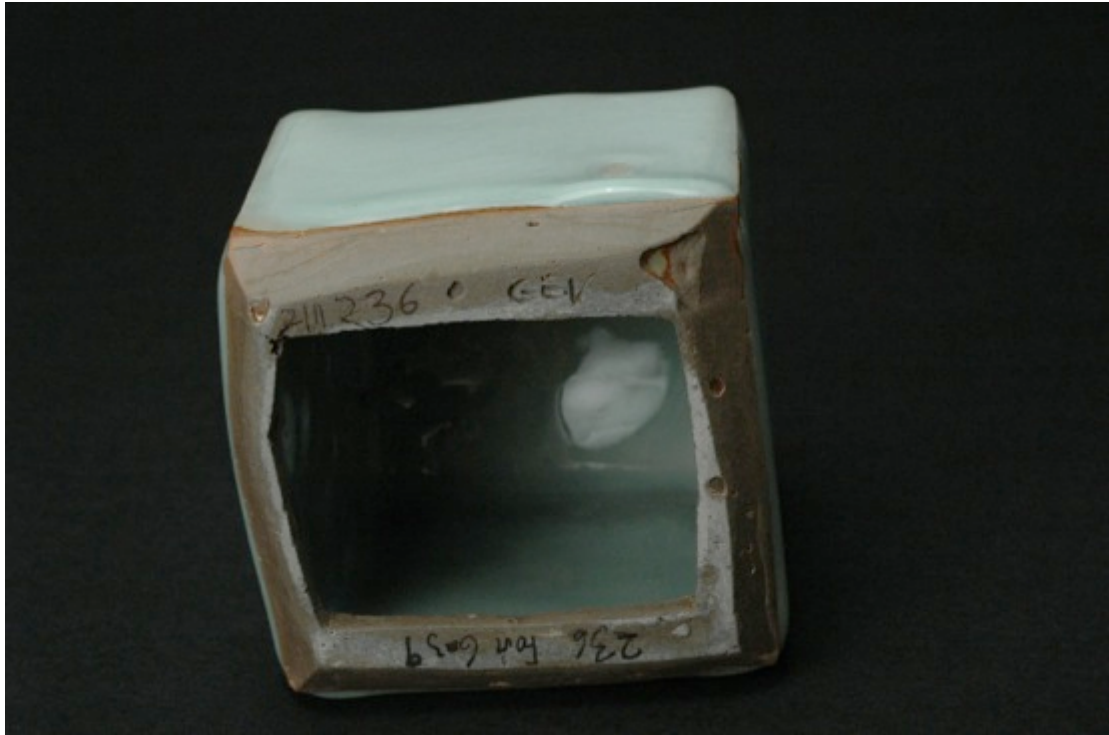
Molecular weight: 432

Firing protocol

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



236, reduction firing, stained porcelain body, Cobblestone Nr. 99



236, reduction firing, stained porcelain body, Cobblestone Nr. 99

Glaze Nr. 238*Cobblestones Nr. 76, 112, 161*

Source: Ming dynasty Longquan glaze chemical analysis (Wood, 1999, p.78).

I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Feldspar	Boos (FAllemand)	45.6
Silica	Boos (SMill E400))	23.5
Molochite	RCA	8.4
Dolomite	Boos (DRB20)	7.0
Whiting	Boos (Chaux BL)	6.4
China clay	Boos (Kaolin Beauvoir)	4.7
Ochre	Boos (Dousselin)	4.3
TOTAL		100.0

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.47	0.18	0.32	0.03	0.00	0.62	4.72	0.04	0.00
%	6.31	1.70	7.09	0.5	0.01	15.01	67.65	1.40	0.02

Molecular weight: 450

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Light reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	>Cone 10 (1300°C)

Position: Floor 1/Front shelf/Front row

Irregular reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1280

Position: Floor 1/Front shelf/Back row



238



238, reduction firing, stained porcelain body, Cobblestone Nr. 112



238, reduction firing, stained porcelain body, Cobblestone Nr. 112



238, light reduction firing, stained porcelain body, Cobblestone Nr. 76



238, light reduction firing, stained porcelain body, Cobblestone Nr. 76



238, light reduction firing, stained porcelain body, Cobblestone Nr. 76



238, light reduction firing, stained porcelain body, Cobblestone Nr. 76



238, light reduction firing, stained porcelain body, Cobblestone Nr. 76



238, light reduction firing, stained porcelain body, Cobblestone Nr. 76



238,irregular reduction firing, white porcelain body, Cobblestone Nr. 161



238,irregular reduction firing, white porcelain body, Cobblestone Nr. 161



238,irregular reduction firing, white porcelain body, Cobblestone Nr. 161

Glaze Nr. 239
Cobblestone Nr. 198

Source: Dayao Di (Kinuta) glaze (1) chemical analysis (Wood, 1999, p.80). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	34.0
Feldspar	Boos (FAllemand)	24.0
Molochite	RCA	13.9
Whiting	Boos (Chaux BL)	15.3
China clay	Boos (Kaolin Beauvoir)	7.0
Dolomite	Boos (DRB20)	1.9
Ochre	Boos (Dousselin)	3.5
Bone ash	RCA	0.4
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.74	0.06	0.18	0.02	0.00	0.58	4.63	0.03	0.01
%	10.21	0.61	4.12	0.30	0.02	14.61	68.63	1.23	0.20

Molecular weight: 443

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



239, reduction, stained porcelain body, Cobblestone Nr. 198



239, reduction, stained porcelain body, Cobblestone Nr. 198



239, reduction, stained porcelain body, Cobblestone Nr. 198



239, reduction, stained porcelain body, Cobblestone Nr. 198

Glaze Nr. 240
Cobblestone Nr. 90

Source: Dayao Di (Kinuta) glaze (2) chemical analysis (Wood, 1999, p.80). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	34.2
Feldspar	Boos (FAllemand)	20.5
Molochite	RCA	16.7
Whiting	Boos (Chaux BL)	15.4
China clay	Boos (Kaolin Beauvoir)	8.4
Dolomite	Boos (DRB20)	2.2
Ochre	Boos (Dousselin)	2.2
Bone ash	RCA	0.4
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.75	0.07	0.16	0.02	0.00	0.62	4.59	0.02	0.01
%	10.42	0.70	3.67	0.26	0.02	15.53	68.25	0.90	0.20

Molecular weight: 441

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



240, reduction, stained porcelain body, Cobblestone Nr. 90



240, reduction, stained porcelain body, Cobblestone Nr. 90



240, reduction, stained porcelain body, Cobblestone Nr. 90

Glaze Nr. 241*Cobblestones Nr. 143, 164, 195, 196*

Source: Longquan Guan glaze (1) chemical analysis (Wood, 1999, p.82). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	30.6
Feldspar	Boos (FAllemand)	25.0
Whiting	Boos (Chaux BL)	24.4
Molochite	RCA	9.1
China clay	Boos (Kaolin Beauvoir)	4.7
Ochre	Boos (Dousselin)	3.8
Dolomite	Boos (DRB20)	2.0
Bone ash	RCA	0.4
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.81	0.05	0.13	0.01	0.00	0.33	2.97	0.02	0.00
%	16.44	0.70	4.29	0.31	0.01	12.23	64.48	1.30	0.20

Molecular weight: 316

Firing protocol

Light and irregular reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1260-1280°C

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



241



241



241, light reduction, white porcelain body, Cobblestone Nr. 143



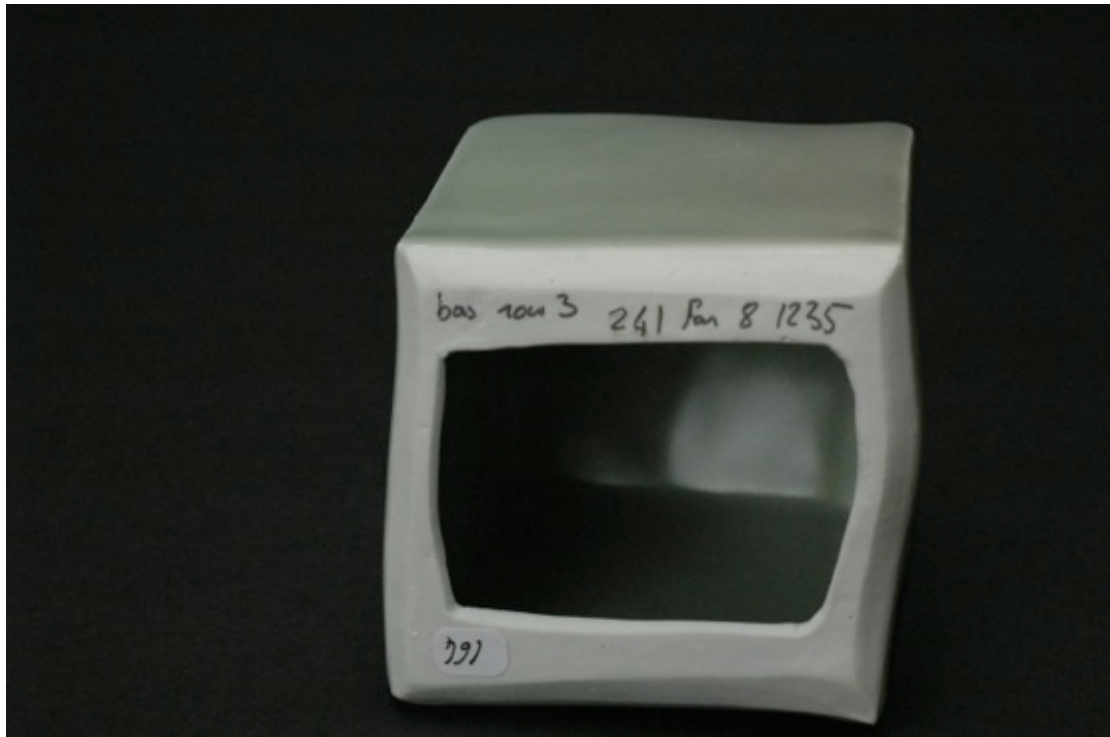
241, light reduction, white porcelain body, Cobblestone Nr. 143



241, irregular reduction, white porcelain body, Cobblestone Nr. 164



241, irregular reduction, white porcelain body, Cobblestone Nr. 164



241, irregular reduction, white porcelain body, Cobblestone Nr. 164



241, light reduction, stained porcelain body, Cobblestone Nr. 195



241, light reduction, stained porcelain body, Cobblestone Nr. 195



241, light reduction, stained porcelain body, Cobblestone Nr. 195



241, reduction, stained porcelain body, Cobblestone Nr. 196



241, reduction, stained porcelain body, Cobblestone Nr. 196



241, reduction, stained porcelain body, Cobblestone Nr. 196

Glaze Nr. 242*Cobblestones Nr. 121, 148, 165, 175*

Source: Longquan Guan glaze (2) chemical analysis (Wood, 1999, p.82). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	27.5
Feldspar	Boos (FAllemand)	21.4
Whiting	Boos (Chaux BL)	20.6
Molochite	RCA	16.9
China clay	Boos (Kaolin Beauvoir)	8.2
Dolomite	Boos (DRB20)	2.0
Ochre	Boos (Dousselin)	2.5
Bone ash	RCA	0.8
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.80	0.06	0.13	0.01	0.00	0.50	3.34	0.01	0.01
%	14.07	0.70	3.91	0.28	0.02	16.18	63.33	1.01	0.40

Molecular weight: 355

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1270-1290°C



242



242, reduction, stained porcelain body, Cobblestone Nr. 121



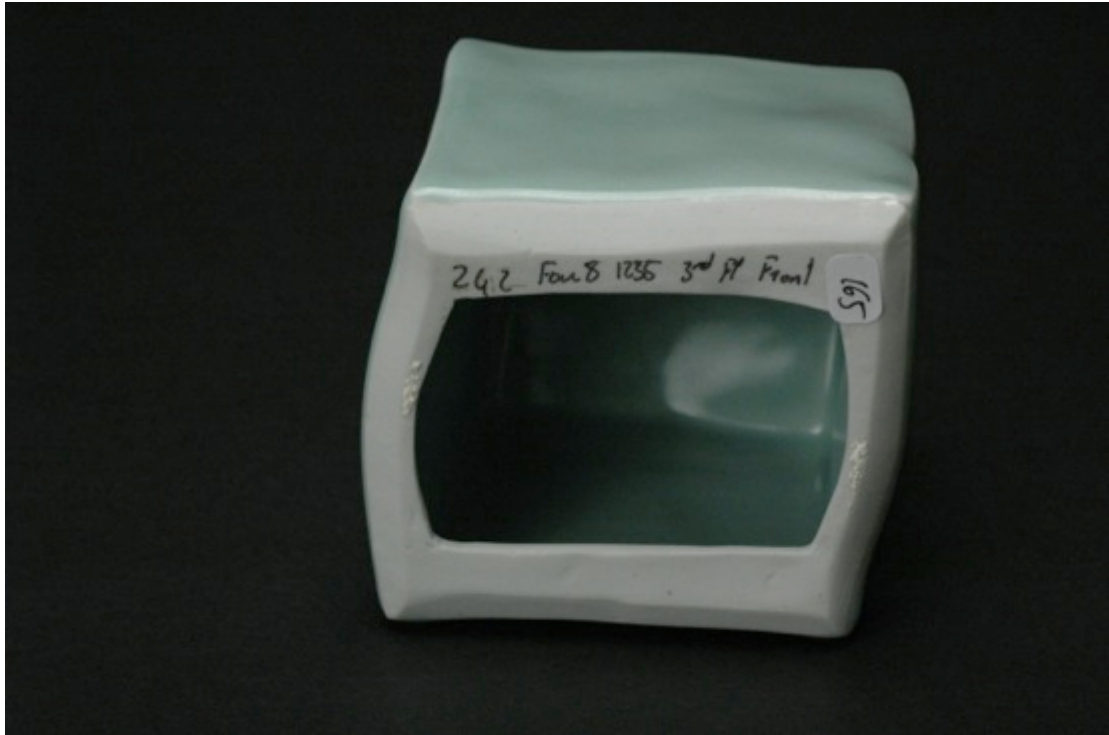
242, reduction, stained porcelain body, Cobblestone Nr. 121



242, reduction, white porcelain body, Cobblestone Nr. 165



242, reduction, white porcelain body, Cobblestone Nr. 165



242, reduction, white porcelain body, Cobblestone Nr. 165



242, light reduction, stained porcelain body, Cobblestone Nr. 175



242, light reduction, stained porcelain body, Cobblestone Nr. 175



242, light reduction, stained porcelain body, Cobblestone Nr. 175

Glaze Nr. 243*Cobblestones Nr. 18, 56, 113, 159*

Source: Longquan Guan glaze chemical analysis (Wood, 1999, p.82). I

reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	29.2
Feldspar	Boos (FAllemand)	27.7
Whiting	Boos (Chaux BL)	20.8
Molochite	RCA	13.0
China clay	Boos (Kaolin Beauvoir)	6.7
Ochre	Boos (Dousselin)	1.9
Bone ash	RCA	0.8
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.80	0.02	0.17	0.02	0.00	0.48	3.66	0.02	0.01
%	13.32	0.21	4.70	0.34	0.02	14.61	65.59	0.80	0.40

Molecular weight: 371

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	>Cone 9 (1280°C)



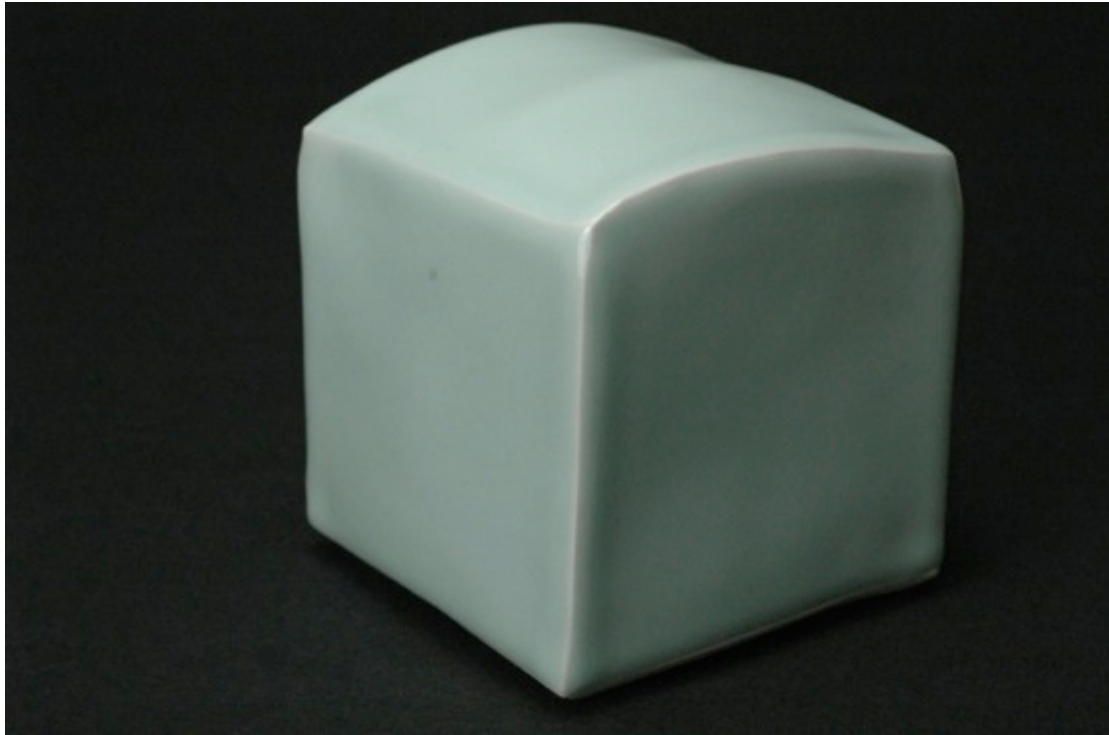
243



243, reduction, stained porcelain body, Cobblestone Nr. 18



243, reduction, stained porcelain body, Cobblestone Nr. 18



243, reduction, white porcelain body, Cobblestone Nr. 113



243, reduction, white porcelain body, Cobblestone Nr. 113

Glaze Nr. 244
Cobblestone Nr. 26

Source: Longquan Guan glaze (4) chemical analysis (Wood, 1999, p.82). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	27.6
Feldspar	Boos (FAllemand)	22.8
Whiting	Boos (Chaux BL)	21.1
Molochite	RCA	15.6
China clay	Boos (Kaolin Beauvoir)	8.2
Ochre	Boos (Dousselin)	2.2
Dolomite	Boos (DRB20)	1.6
Bone ash	RCA	0.8
TOTAL		99.9

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.80	0.05	0.14	0.02	0.00	0.49	3.32	0.02	0.01
%	14.24	0.60	4.09	0.30	0.02	15.75	63.49	0.90	0.40

Molecular weight: 352

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



244, reduction, stained porcelain body, Cobblestone Nr. 26



244, reduction, stained porcelain body, Cobblestone Nr. 26

Glaze Nr. 246
Cobblestone Nr. 108

Source: Ru ware glaze (2) chemical analysis (Wood, 1999, p.127). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Feldspar	Boos (FAllemand)	24.9
Silica	Boos (SMill E400))	19.4
Whiting	Boos (Chaux BL)	19.2
Molochite	RCA	14.5
China clay	Boos (Kaolin Beauvoir)	7.9
Ochre	Boos (Dousselin)	6.8
Dolomite	Boos (DRB20)	6.0
Bone ash	RCA	1.1
TOTAL		99.8

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.74	0.11	0.13	0.01	0.00	0.45	2.66	0.04	0.01
%	15.09	1.69	4.50	0.34	0.02	16.88	58.39	2.28	0.60

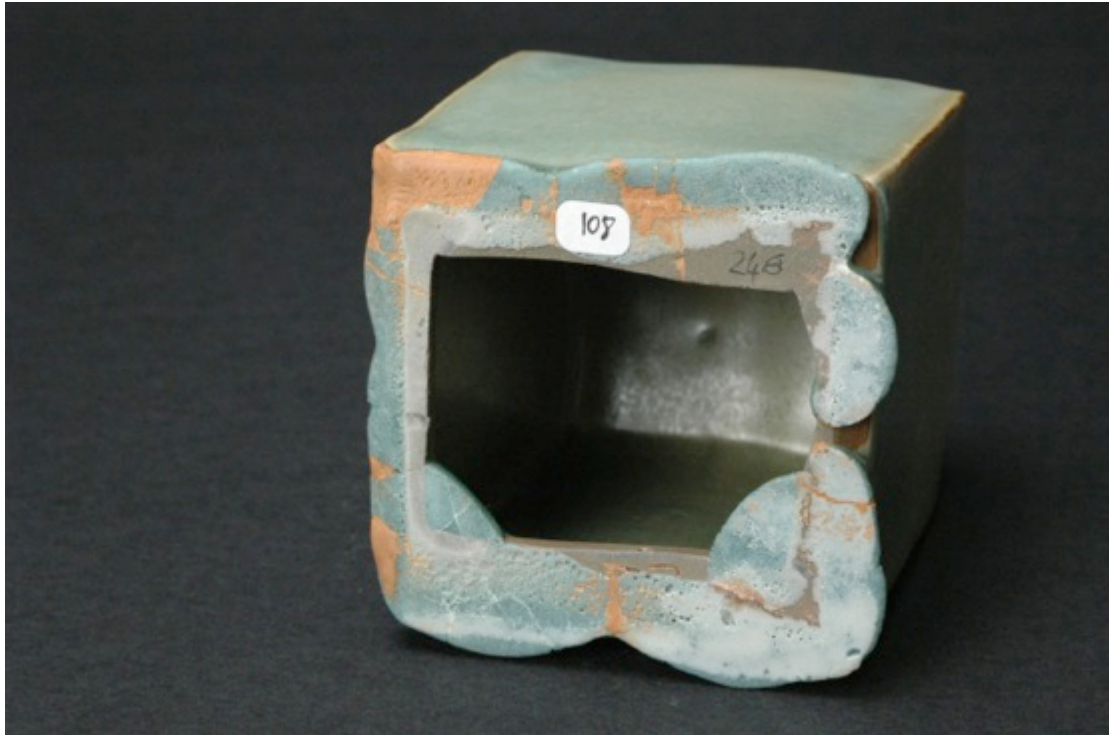
Molecular weight: 313

Firing protocol

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



246, reduction, lightly-stained porcelain body, Cobblestone Nr. 108



246, reduction, lightly-stained porcelain body, Cobblestone Nr. 108

Glaze Nr. 248
Cobblestone Nr. 94

Source: Alexander Bowl glaze chemical analysis (Wood, 1999, p.127). I reverse-engineered the recipe by using the materials available to match the analysis provided.

Recipe

Material	Source	Quantity
Feldspar	Boos (FAllemand)	20.2
Silica	Boos (SMill E400))	28.0
Whiting	Boos (Chaux BL)	14.5
Molochite	RCA	14.6
China clay	Boos (Kaolin Beauvoir)	7.4
Ochre	Boos (Dousselin)	6.8
Dolomite	Boos (DRB20)	7.0
Bone ash	RCA	1.2
TOTAL		100.0

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.71	0.15	0.13	0.01	0.00	0.49	3.38	0.05	0.01
%	12.34	1.89	3.68	0.28	0.02	15.52	63.28	2.29	0.60

Molecular weight: 361

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



248, reduction, stained porcelain body, Cobblestone Nr. 94



248, reduction, stained porcelain body, Cobblestone Nr. 94



248, reduction, stained porcelain body, Cobblestone Nr. 94

Glaze Nr. 264
Cobblestone Nr. 133

Source: Alexander Bowl glaze recipe (Wood, 1999, p.270).

Recipe

Material	Source	Quantity
Silica	Boos (SMill E400))	27.0
Feldspar	Boos (FAllemand)	25.3
Whiting	Boos (Chaux BL)	14.5
Molochite	RCA	16.0
China clay	Boos (Kaolin Beauvoir)	7.5
Dolomite	Boos (DRB20)	8.0
Red Iron Oxide	RCA	1.8
TOTAL		100

Molecular formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3	P2O5
Formula	0.67	0.16	0.15	0.02	0.00	0.48	3.33	0.04	
%	11.89	2.07	4.45	0.31	0.02	15.64	63.35	2.25	

Molecular weight: 353

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



264, reduction, stained porcelain body, Cobblestone Nr. 133



264, reduction, stained porcelain body, Cobblestone Nr. 133



264, reduction, stained porcelain body, Cobblestone Nr. 133

Glaze Nr. 275 (Nr. 70 2% Fe)*Cobblestones Nr. 11, 48, 50, 97, 119, 122, 149*

Source: Base recipe given by Takeshi Yasuda (Yasuda, 2002, p.21), adapted with ochre to turn into a celadon glaze.

Recipe

Material	Source	Quantity
Cornish stone	RCA	49.1
Wollastonite	RCA	37.9
China clay	Boos (Kaolin Beauvoir BIP)	3.8
Talc	Boos (Luzenac)	3.1
Ochre (red)	Boos (Dousselin)	6.1
TOTAL		100

Molecular Formula

	CaO	MgO	K2O	Na2O	Al2O3	SiO2	Fe2O3
Formula	0.78	0.08	0.05	0.08	0.26	2.66	0.03
%	17.66	1.28	2.09	2.11	10.60	64.43	1.76

Molecular weight: 257.8

Firing protocols

1. Reduction

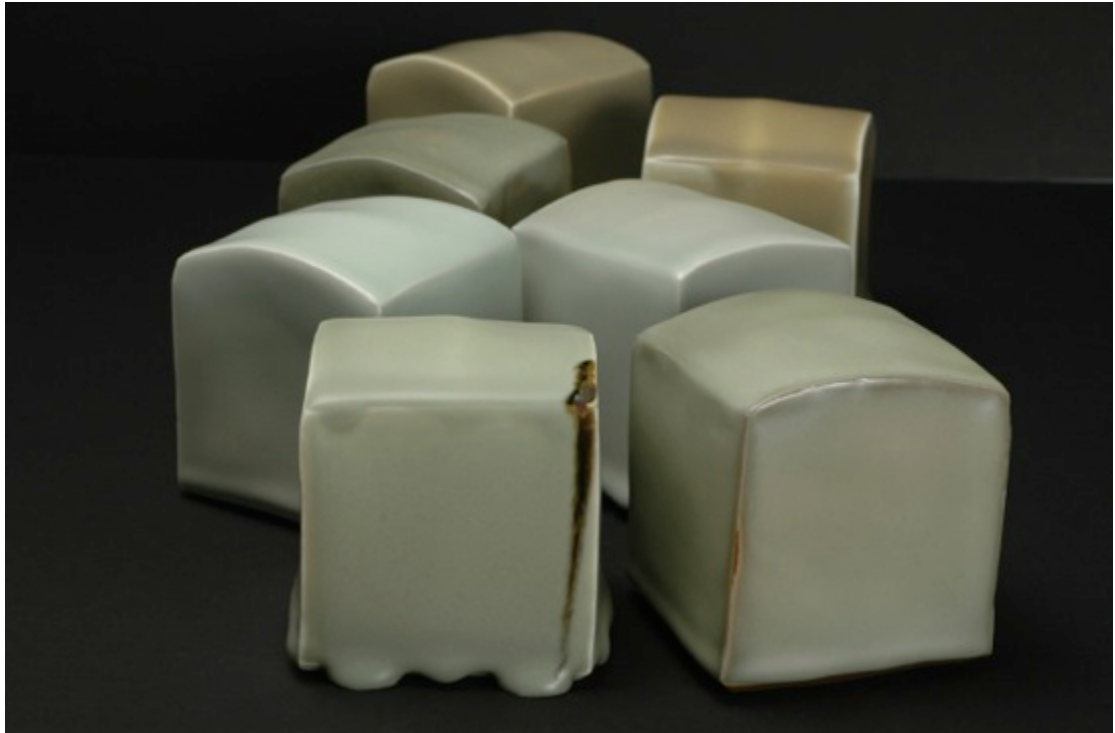
Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)

Position: Floor 2/Back shelf/Front part/Right half/Left side

2. Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)

Position: Floor 3/Back shelf/Front part/Left half/Left side



275



*275 + iron slip over glaze, irregular reduction, white porcelain body,
Cobblestone Nr. 50*



*275 + iron slip over glaze, irregular reduction, white porcelain body,
Cobblestone Nr. 50*



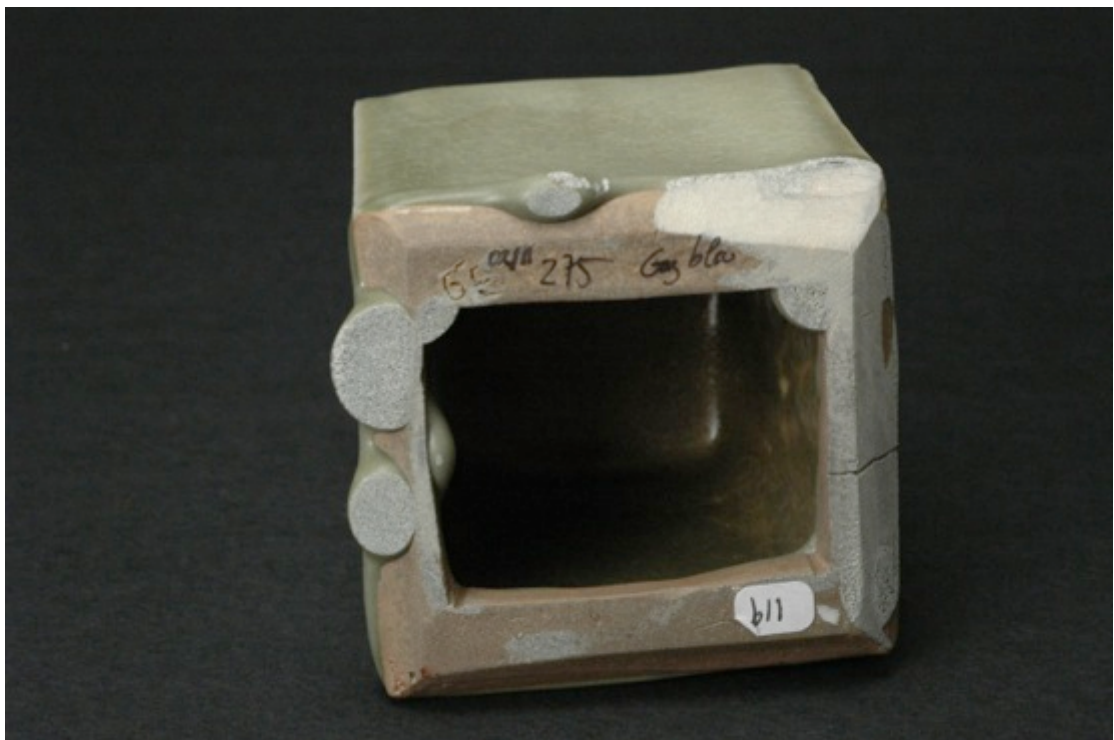
275, irregular reduction, white porcelain body, Cobblestone Nr. 50



275, irregular reduction, white porcelain body, Cobblestone Nr. 50



275, light reduction, stained porcelain body, Cobblestone Nr. 119



275, light reduction, stained porcelain body, Cobblestone Nr. 119



275, reduction, white porcelain body, Cobblestone Nr. 48



275, reduction, white porcelain body, Cobblestone Nr. 48



275, reduction, white porcelain body, Cobblestone Nr. 48



275, neutral, white porcelain body, Cobblestone Nr. 97



275, neutral, white porcelain body, Cobblestone Nr. 97

Description

- Monochrome glaze
- Celadon type
- Semi-matt
- Smooth surface
- Subtle, textured film over glaze
- Blurry through grain and materiality. On upper face: imprecise inner and outer limit: fuzzy, out of focus. Side faces more textured in most places heightening sense of surface over sense of depth/volume
- Localized neutral or light reduction on one of the side faces creates a sense of depth through differences in shade and colour
- Oxidised version much more textured: does not convey sense of haziness
- Sense of volume rather than sense of surface
- Fat drops of glaze at foot (thick and buttery). Thin towards the top of vertical faces
- Clear sound (no body cracks)

Glaze Nr. 283 (Nr. 70 1% Fe)
Cobblestones Nr. 45, 51, 82, 102, 127, 163

Source: Base recipe by Takeshi Yasuda (Yasuda, 2002, p.21), adapted with ochre to turn into a celadon glaze.

Recipe

Material	Source	Quantity
Cornish stone	RCA	49
Wollastonite	RCA	39.5
China clay	Boos (Kaolin Beauvoir BIP)	5.6
Talc	Boos (Luzenac)	2.9
Ochre (red)	Boos (Dousselin)	2.9
TOTAL		100

Molecular Formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.79	0.07	0.05	0.08	0.00	0.25	2.59	0
%	18.4	1.22	2.11	2.11	0.02	10.62	64.60	0.91

Molecular weight: 249.6

Firing protocol

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)

Position: Floor 2/Back shelf/Front part/Right half/Right side

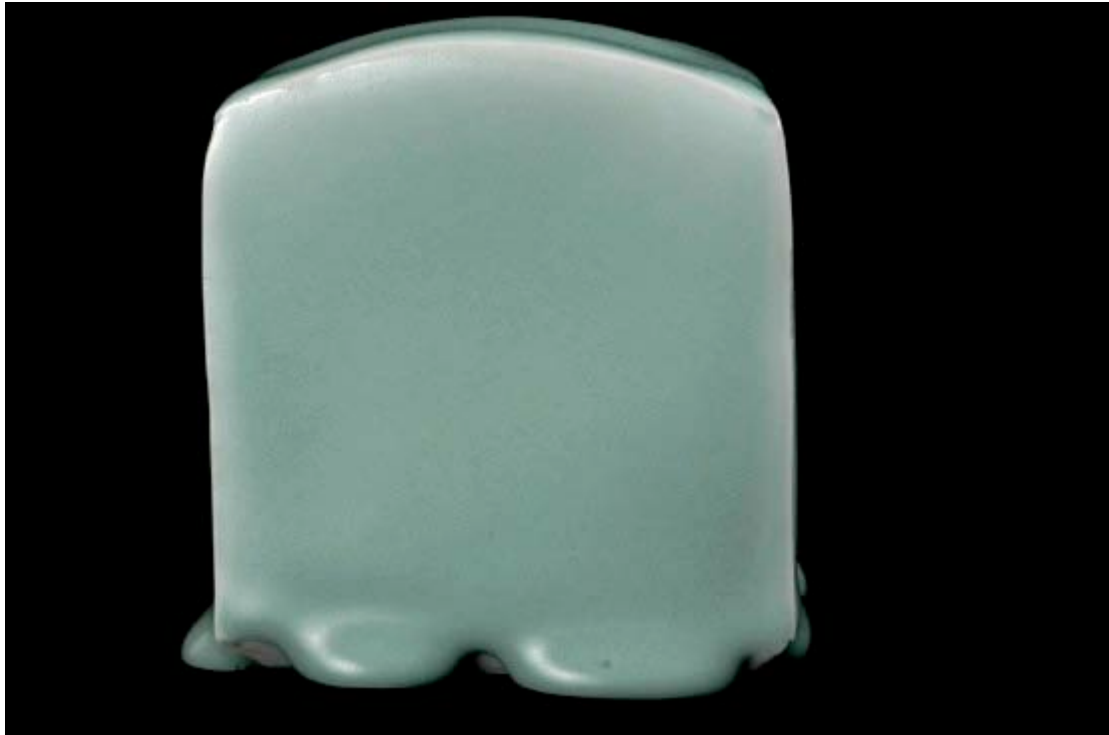
Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)

Position: Floor 3/Back shelf/Front part/Left half/Right side



283



283, reduction, white porcelain body, Cobblestone Nr. 85



283, reduction, white porcelain body, Cobblestone Nr. 85



283, reduction, white porcelain body, Cobblestone Nr. 85



283, reduction, white porcelain body, Cobblestone Nr. 85



283, light reduction, stained porcelain body, Cobblestone Nr. 45



283, light reduction, stained porcelain body, Cobblestone Nr. 45



283, light reduction, stained porcelain body, Cobblestone Nr. 45



283, light reduction, stained porcelain body, Cobblestone Nr. 45



283, neutral, white porcelain body, Cobblestone Nr. 163



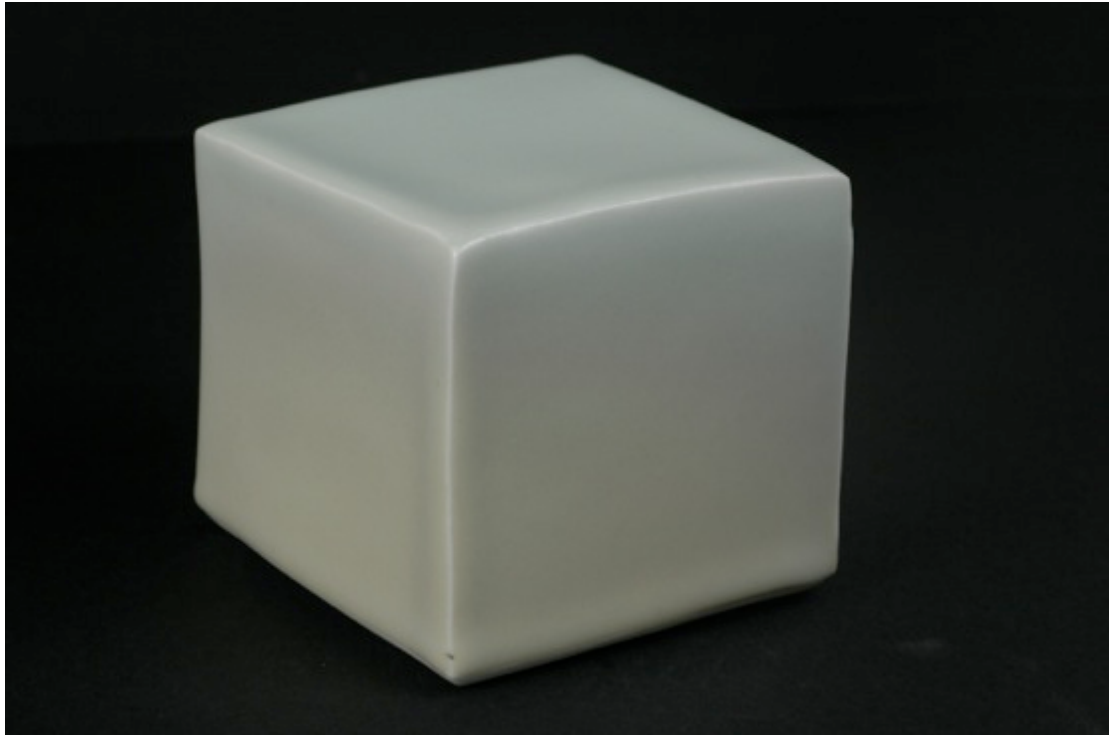
283, neutral, white porcelain body, Cobblestone Nr. 163



283, light and irregular reduction, white porcelain body, Cobblestone Nr. 82



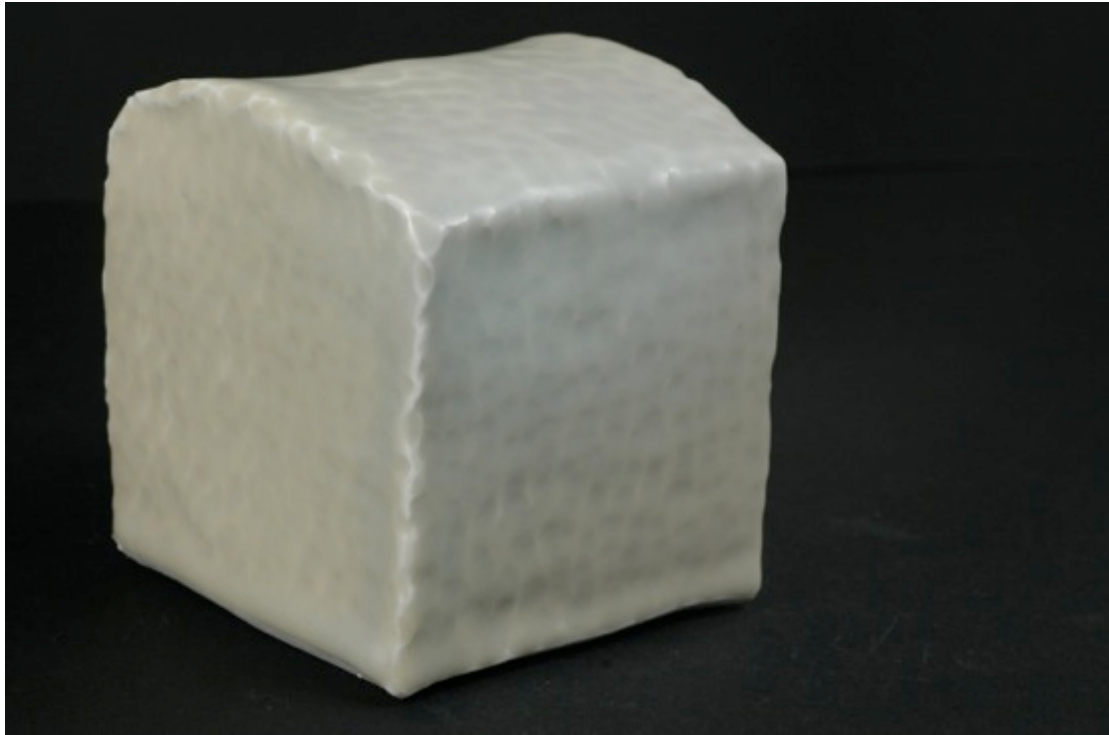
283, light and irregular reduction, white porcelain body, Cobblestone Nr. 82



283, light and irregular reduction, white porcelain body, Cobblestone Nr. 102



283, light and irregular reduction, white porcelain body, Cobblestone Nr. 102



283, light and irregular reduction, white porcelain body, Cobblestone Nr. 127

Description

- Monochrome glaze.
- Celadon type.
- Semi-matt.
- Smooth surface.
- Blurry through grain and materiality. Imprecise inner and outer limit:
fuzzy, out of focus
- Oxidised version less hazy
- Sense of volume rather than sense of surface
- Fat drops of glaze at foot (thick and buttery). Thin towards the top of
vertical faces.
- Clear sound (no body cracks)

Glaze Nr. 286
Cobblestones Nr. 17, 147

Source: recipe given by Nigel Wood as a 'classic' base recipe: 80-20

Recipe

Material	Source	Quantity
Pegmatite	RCA	80
Wollastonite	RCA	20
TOTAL		100

Molecular Formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3
Formula	0.65	0.01	0.13	0.21		0.48	4.65	0
%	9.27	0.12	3.19	3.35		12.50	71.53	0.05

Molecular weight: 406.8

Firing protocol

Reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)



286



286, light reduction, white porcelain body, Cobblestone Nr. 17, Cobblestone Nr. 147



286, light reduction, white porcelain body, Cobblestone Nr. 17, Cobblestone Nr. 147

TKWT 50
Cobblestones Nr. 2, 139

Source: Kolding Glaze Library

Recipe

Material	Source	Quantity
China clay	Boos (Kaolin Beauvoir BIP)	25
Wollastonite	RCA	25
Talc	Boos (Luzenac)	20
Silica	Boos (SMill E400)	20
Potassium feldspar	Boos (Fall)	10
TOTAL		100.0

Molecular Formula

	CaO	MgO	K ₂ O	Na ₂ O	Li ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.52	0.42	0.05	0.01	0.01	0.29	2.71	0
%	11.92	6.90	1.97	0.18	0.07	12.02	66.62	0.32

Molecular weight: 247

Firing Protocol

Light reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)



TKWT 50 (2 Fe and 1 Fe)

TKWT 50 1 Fe



TKWT 50 1 Fe, light reduction, Cobblestone Nr. 139



TKWT 50 1 Fe, light reduction, Cobblestone Nr. 139

TKWT 50 2 Fe



TKWT 50 2 Fe, light reduction, Cobblestone Nr. 2

COPPER REDS

Cobblestones Nr. 54, 55, 69-2, 111, 151, 157, 181-2

Derek Emms' red

Source: Glaze recipe given by Stephen Murfitt (Murfitt, 2002, p.239).

Recipe

Material	Source	Quantity
Soda feldspar	RCA	42
Flint	RCA	19
Whiting	RCA	14
High alkali frit	RCA (Pottery Crafts P2962)	14
China clay	RCA	5
Total 1		94
Tin	RCA	5
Copper carbonate	RCA	1
Total 2		100

Molecular formula (without colouring oxides)

	CaO	MgO	K ₂ O	Na ₂ O	B ₂ O ₃	Al ₂ O ₃	SiO ₂
Formula	0.54	0.01	0.10	0.35	0.02	0.38	3.50
%	12.35	0.11	2.95	7.04	0.56	12.35	67.22

Molecular weight: 341

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

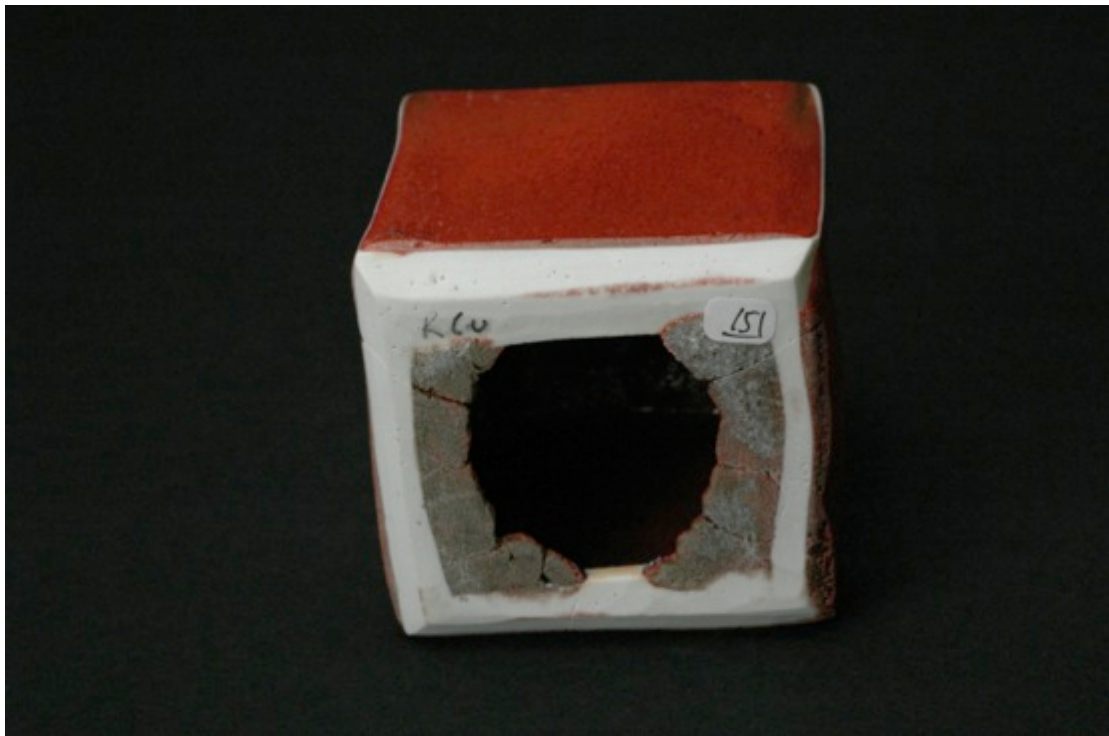
The same glaze was tried on different cobblestones to test homogeneity of kiln 9.



Derek Emms' red



Derek Emms' red, reduction firing, Cobblestone Nr. 151



Derek Emms' red, reduction firing, Cobblestone Nr. 151



Derek Emms' red, reduction firing, Cobblestone Nr. 157



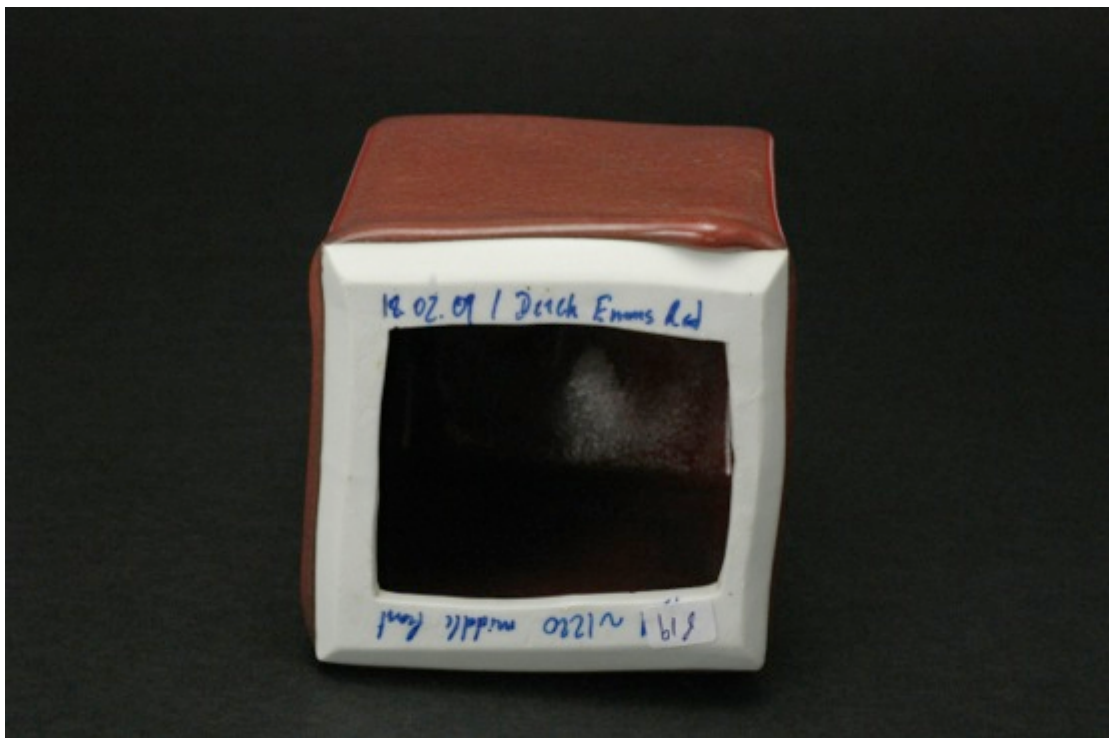
Derek Emms' red, reduction firing, Cobblestone Nr. 157



Derek Emms' red, reduction firing, Cobblestone Nr. 157



Derek Emms' red, reduction firing, Cobblestone Nr. 111



Derek Emms' red, reduction firing, Cobblestone Nr. 111



Derek Emms' red, reduction firing, Cobblestone Nr. 54



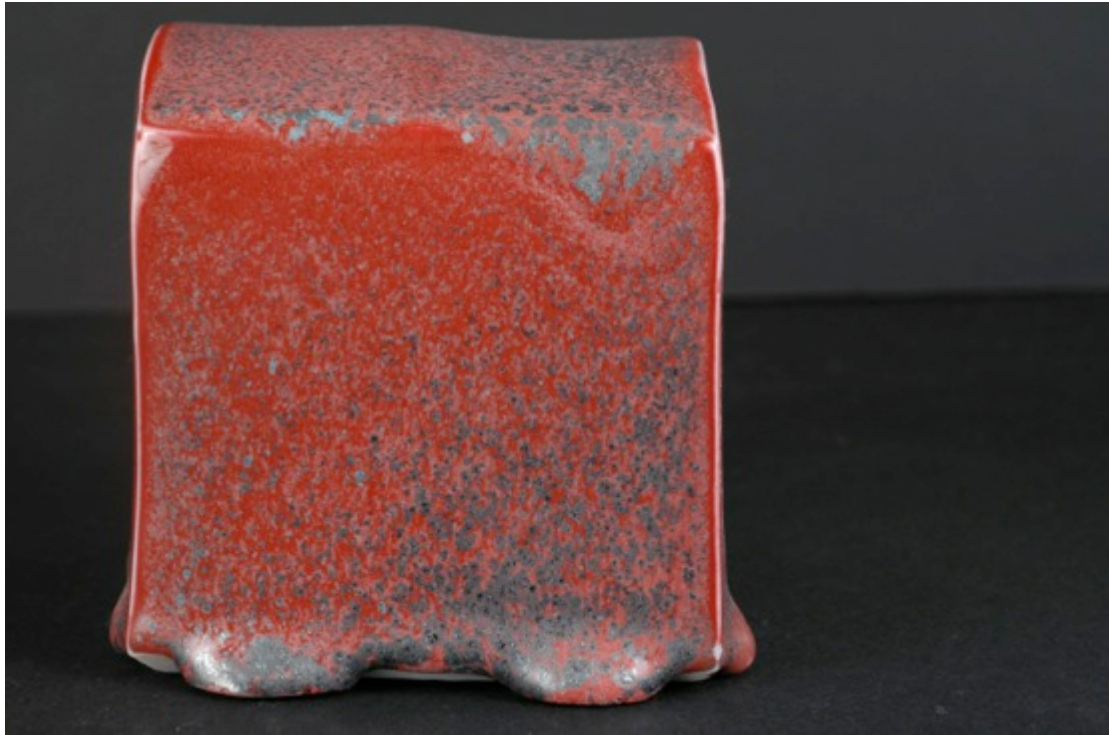
Derek Emms' red, reduction firing, Cobblestone Nr. 54



Derek Emms' red, reduction firing, Cobblestone Nr. 54



Derek Emms' red, reduction firing, Cobblestone Nr. 54



Derek Emms' red, reduction firing, Cobblestone Nr. 55



Derek Emms' red, reduction firing, Cobblestone Nr. 55



Derek Emms' red, reduction firing, Cobblestone Nr. 55



Derek Emms' red, reduction firing, Cobblestone Nr. 55



Derek Emms' red, reduction firing (left element only), Cobblestone Nr. 181-2



Derek Emms' red, reduction firing (right element only), Cobblestone Nr. 181-2



Derek Emms' red, reduction firing (left element), Cobblestone Nr. 69-2



Derek Emms' red, reduction firing (left element), Cobblestone Nr. 69-2

Sam's red 5 Cu
Cobblestone Nr. 110

Source: Base glaze recipe by Sam Bakewell. By mistake I put 10 times the suggested amount of copper carbonate: 5% instead of 0.5.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Copper carbonate	RCA	50
Total 1		1000
Rutile	RCA	10
Bone ash	RCA	10
Tin	RCA	10
Red iron oxide	RCA	5
Lithium carbonate	RCA	5
Total 2		1090

Molecular formula (without colouring oxides)

	CaO	MgO	K₂O	Na₂O	B₂O₃	Al₂O₃	SiO₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



Sam's red 5 Cu, reduction firing, Cobblestone Nr. 110



Sam's red 5 Cu, reduction firing, Cobblestone Nr. 110

Sam's red (no mistake)*Cobblestones Nr. 1, 24, 30, 126, 145, 158, 170, 199*

Source: Glaze recipe by Sam Bakewell.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Total 1		1000
Rutile	RCA	10
Bone ash	RCA	10
Tin	RCA	10
Copper carbonate	RCA	5
Red iron oxide	RCA	5
Lithium carbonate	RCA	5
Total 2		1045

Molecular formula (without colouring oxides)

	CaO	MgO	K ₂ O	Na ₂ O	B ₂ O ₃	Al ₂ O ₃	SiO ₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Light reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr 8	1225 Reduction 850	8h00	~150°C/h	>Cone 10 (1300°C)



Sam's red



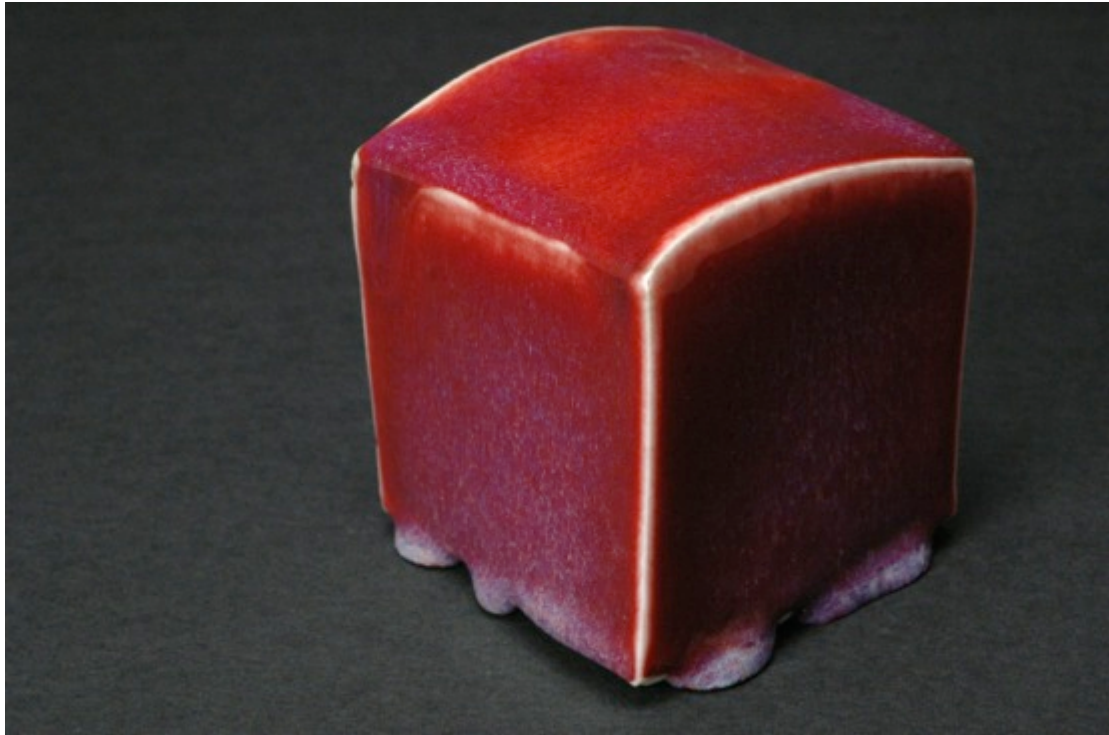
Sam's red (no mistake), reduction firing, Cobblestone Nr. 145



Sam's red (no mistake), reduction firing, Cobblestone Nr. 145



Sam's red (no mistake), reduction firing, Cobblestone Nr. 145



Sam's red (no mistake), thin layered glaze, reduction firing, Cobblestone Nr. 126



Sam's red (no mistake), thin layered glaze, reduction firing, Cobblestone Nr. 126



Sam's red (no mistake), thin layered glaze, reduction firing, Cobblestone Nr. 126



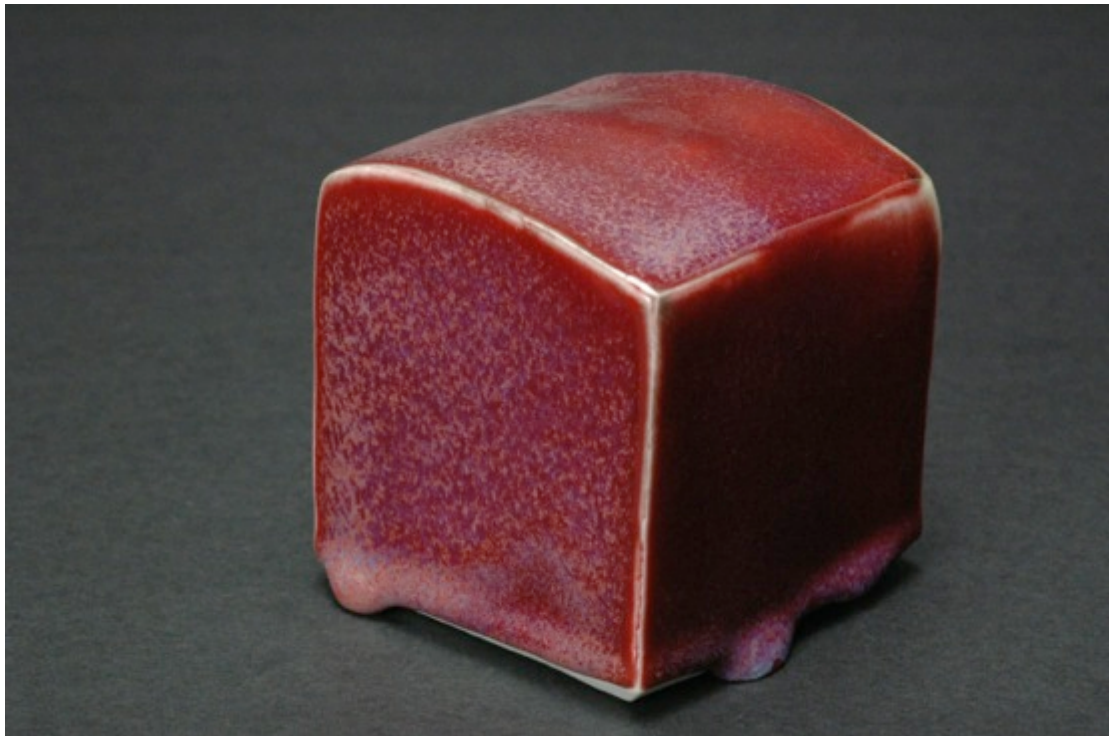
Sam's red (no mistake), thin layered glaze, reduction firing, Cobblestone Nr. 126



Sam's red (no mistake), thin layered glaze, reduction firing, Cobblestone Nr. 126



Sam's red (no mistake), medium layered glaze, reduction firing, Cobblestone Nr. 158



Sam's red (no mistake), medium layered glaze, reduction firing, Cobblestone Nr. 158



Sam's red (no mistake), medium layered glaze, reduction firing, Cobblestone Nr. 158



Sam's red (no mistake), medium layered glaze, reduction firing, Cobblestone Nr. 158



Sam's red (no mistake), light reduction firing, Cobblestone Nr. 170



Sam's red (no mistake), light reduction firing, Cobblestone Nr. 170



Sam's red (no mistake), light reduction firing, Cobblestone Nr. 170



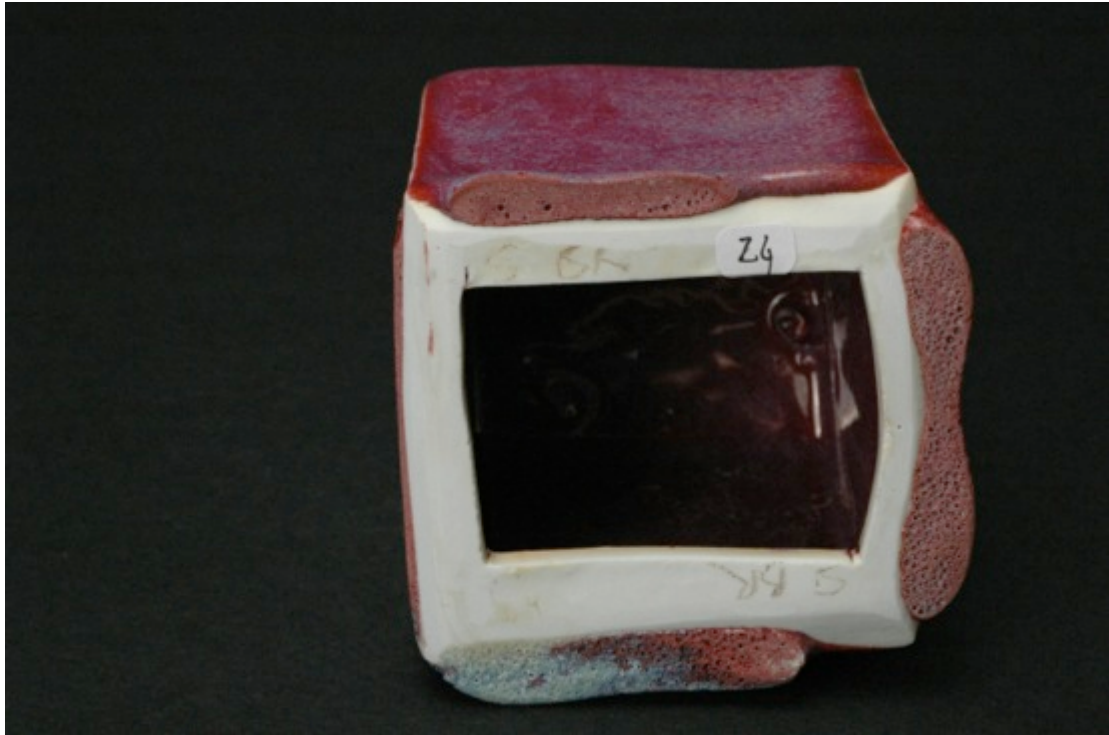
Sam's red (no mistake), light reduction firing, Cobblestone Nr. 170



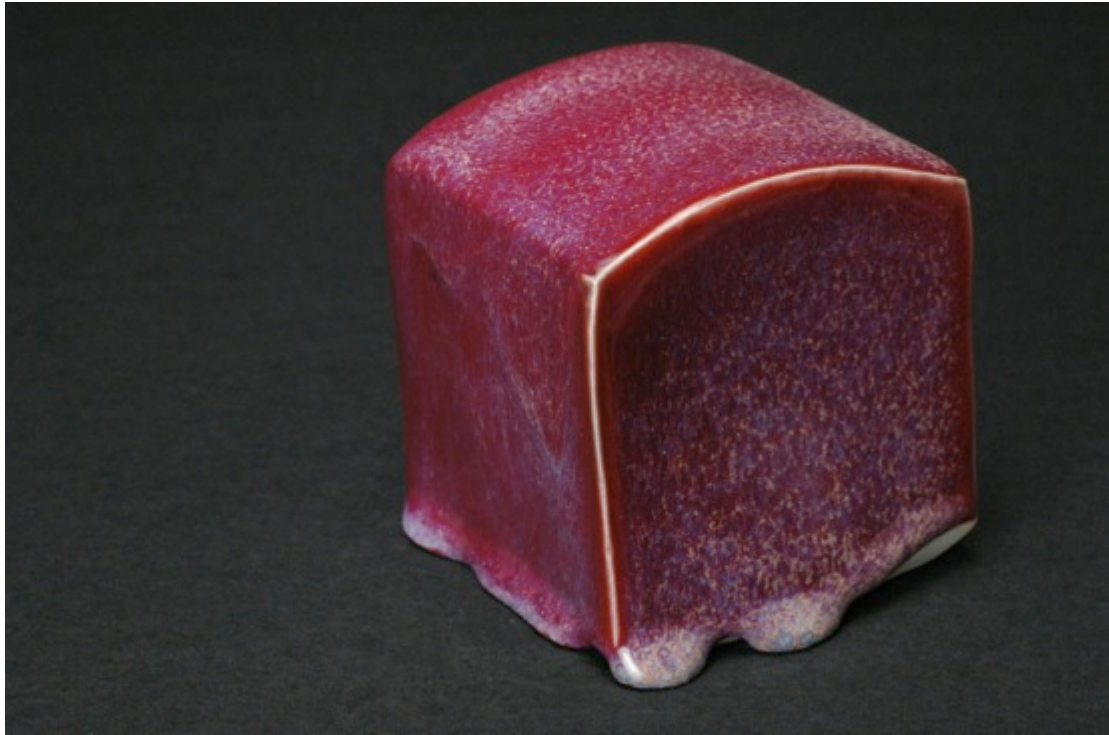
Sam's red (no mistake), ball-milled 30 min, reduction firing, Cobblestone Nr. 24



Sam's red (no mistake), ball-milled 30 min, reduction firing, Cobblestone Nr. 24



Sam's red (no mistake), ball-milled 30 min, reduction firing, Cobblestone Nr. 24



Sam's red (no mistake), ball-milled 30 min, reduction firing, Cobblestone Nr. 30



Sam's red (no mistake), double reduction firing, Cobblestone Nr. 199



Sam's red (no mistake), double reduction firing, Cobblestone Nr. 199

Sam's red with own materials*Cobblestones Nr. 124, 162*

Source: Glaze recipe by Sam Bakewell; made with own materials.

Recipe

Material	Source	Quantity
Potash feldspar	Boos (FAI)	350
Quartz	Boos (SE400)	200
Whiting	Boos (Chaux BL)	180
Borax frit 55	RCA (PotteryCrafts P2955)	100
Cornish stone	RCA	100
China clay	Boos (BIP)	70
Total 1		1000
Rutile	RCA	10
Bone ash	Boos	10
Tin	Boos	10
Copper carbonate	Boos	5
Red iron oxide	RCA	5
Lithium carbonate	RCA	5
Total 2		1045

Molecular formula (without colouring oxides)

	CaO	MgO	K₂O	Na₂O	B₂O₃	Al₂O₃	SiO₂
Formula	0.66	0.01	0.22	0.10	0.07	0.36	3.30
%	12.22	0.15	6.86	2.03	1.49	12.11	65.02

Molecular weight: 334

Firing protocol

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	8h40	150°C/h	1270-1280

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



Sam's red with own materials



Sam's red with own materials, neutral firing, Cobblestone Nr. 124



Sam's red with own materials, neutral firing, Cobblestone Nr. 124



Sam's red with own materials, neutral firing, Cobblestone Nr. 124



Sam's red with own materials, reduction firing, Cobblestone Nr. 162



Sam's red with own materials, reduction firing, Cobblestone Nr. 162



Sam's red with own materials, reduction firing, Cobblestone Nr. 162



Sam's red with own materials, reduction firing, Cobblestone Nr. 162

Sam's red no Rutile
Cobblestones Nr. 31, 169

Source: Base glaze recipe by Sam Bakewell.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Total 1		1000
Bone ash	RCA	10
Tin	RCA	10
Copper carbonate	RCA	5
Red iron oxide	RCA	5
Lithium carbonate	RCA	5
Total 2		1035

Molecular formula (without colouring oxides)

	CaO	MgO	K ₂ O	Na ₂ O	B ₂ O ₃	Al ₂ O ₃	SiO ₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	8h40	150°C/h	1270-1280



Sams's red no rutile



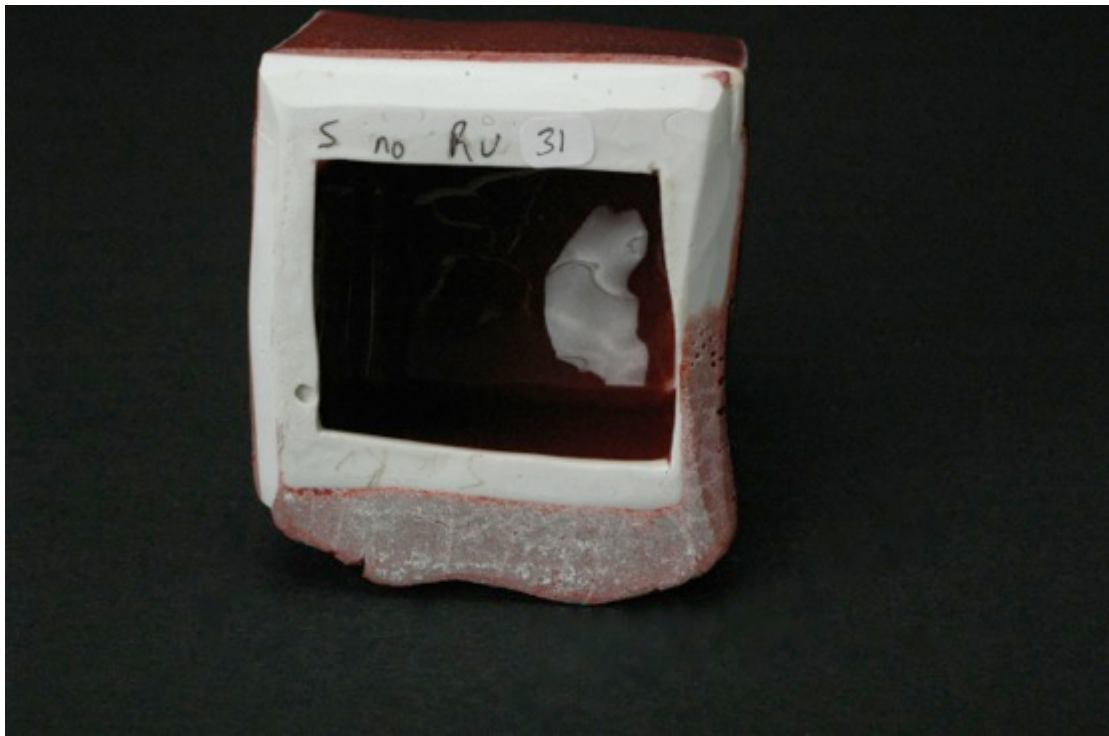
Sams's red no rutile, reduction firing, Cobblestone Nr. 31



Sams's red no rutile, reduction firing, Cobblestone Nr. 31



Sams's red no rutile, reduction firing, Cobblestone Nr. 31



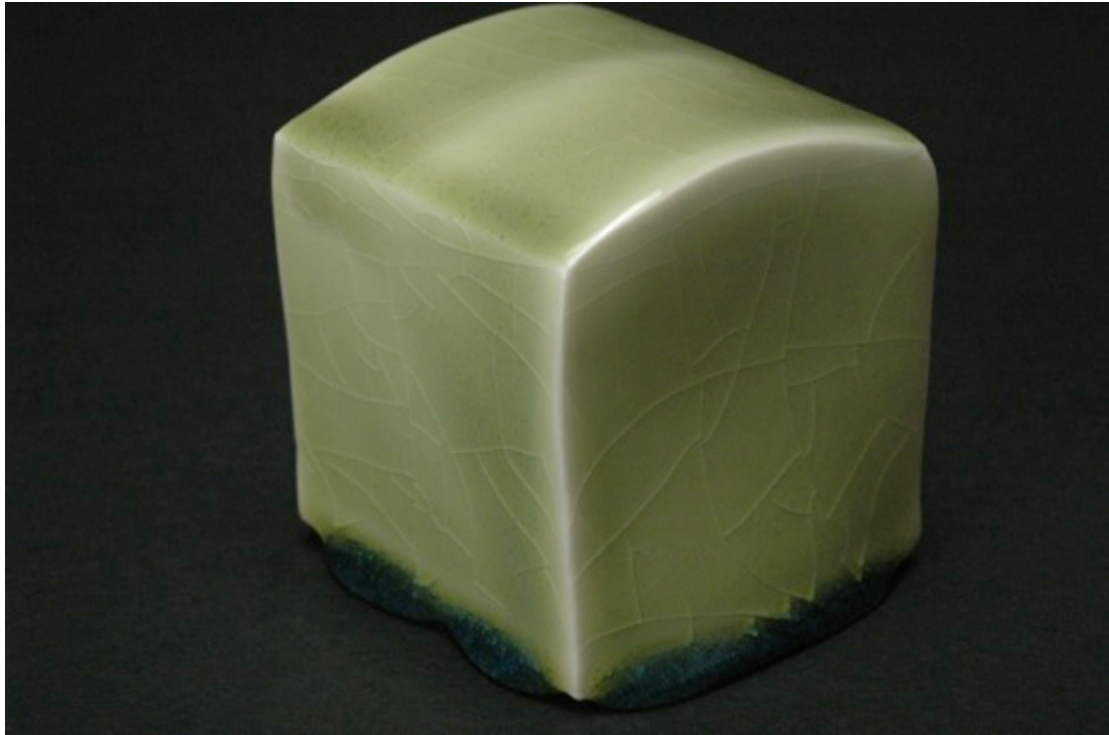
Sams's red no rutile, reduction firing, Cobblestone Nr. 31



Sams's red no rutile, neutral firing, Cobblestone Nr. 169



Sams's red no rutile, neutral firing, Cobblestone Nr. 169



Sams's red no rutile, neutral firing, Cobblestone Nr. 169



Sams's red no rutile, neutral firing, Cobblestone Nr. 169

Sam's red no iron*Cobblestones Nr. 9, 66, 91*

Source: Base glaze recipe by Sam Bakewell.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Total 1		1000
Rutile	RCA	10
Bone ash	RCA	10
Tin	RCA	10
Copper carbonate	RCA	5
Lithium carbonate	RCA	5
Total 2		1040

Molecular formula (without colouring oxides)

	CaO	MgO	K ₂ O	Na ₂ O	B ₂ O ₃	Al ₂ O ₃	SiO ₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	8h40	150°C/h	1270-1280



Sams's red no iron



Sams's red no iron



Sams's red no iron, reduction firing, Cobblestone Nr. 91



Sams's red no iron, reduction firing, Cobblestone Nr. 91



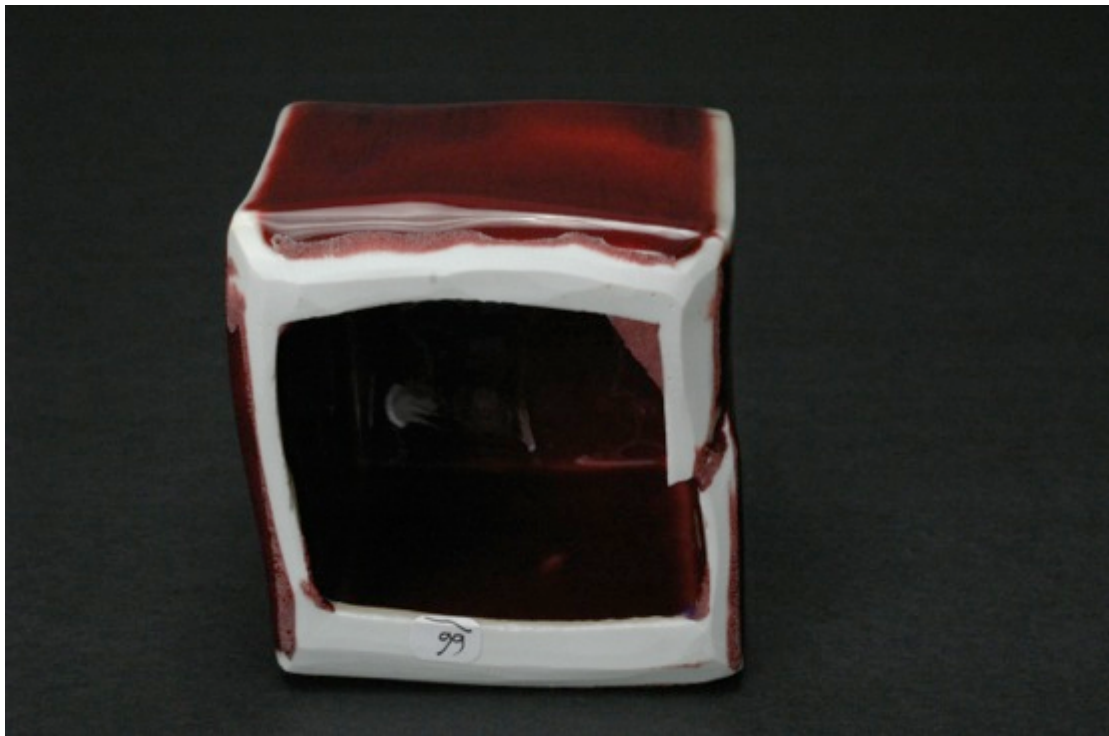
Sams's red no iron, double reduction firing, Cobblestone Nr. 66



Sams's red no iron, double reduction firing, Cobblestone Nr. 66



Sams's red no iron, double reduction firing, Cobblestone Nr. 66



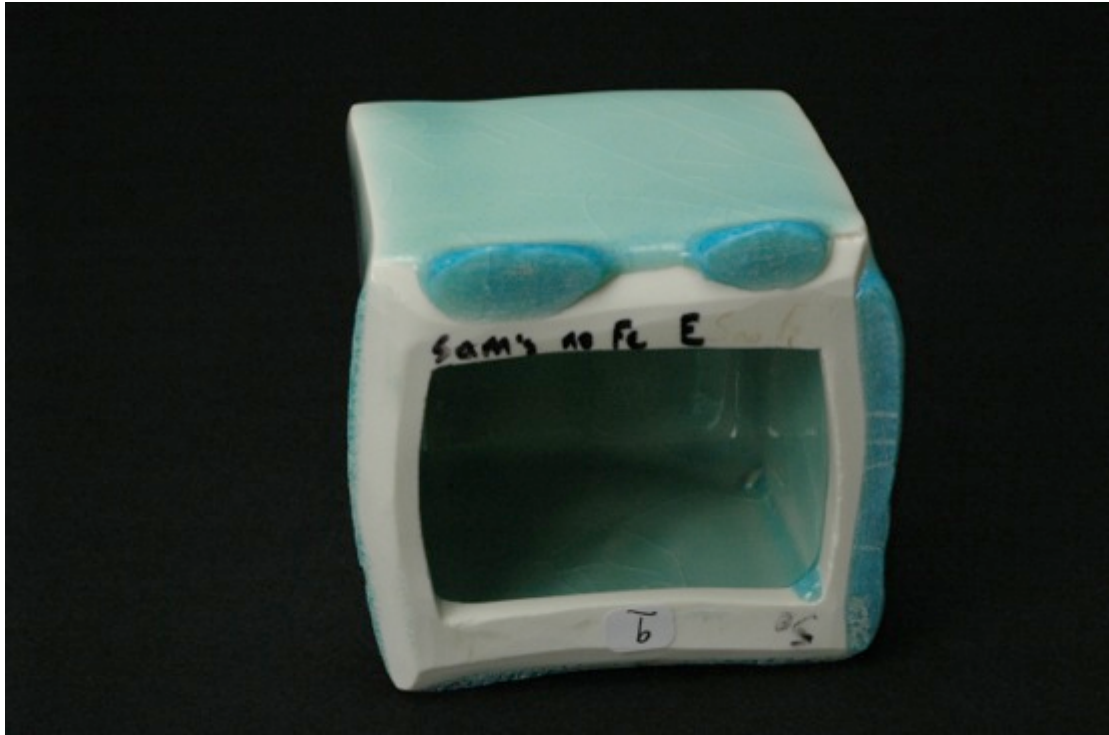
Sams's red no iron, double reduction firing, Cobblestone Nr. 66



Sams's red no iron, neutral firing, Cobblestone Nr. 9



Sams's red no iron, neutral firing, Cobblestone Nr. 9



Sams's red no iron, neutral firing, Cobblestone Nr. 9

Sam's red no tin*Cobblestones Nr. 10, 80, 140*

Source: Base glaze recipe by Sam Bakewell.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Total 1		1000
Rutile	RCA	10
Bone ash	RCA	10
Copper carbonate	RCA	5
Red iron oxide	RCA	5
Lithium carbonate	RCA	5
Total 2		1035

Molecular formula (without colouring oxides)

	CaO	MgO	K ₂ O	Na ₂ O	B ₂ O ₃	Al ₂ O ₃	SiO ₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Neutral

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	8h40	150°C/h	1270-1280



Sams' red no tin



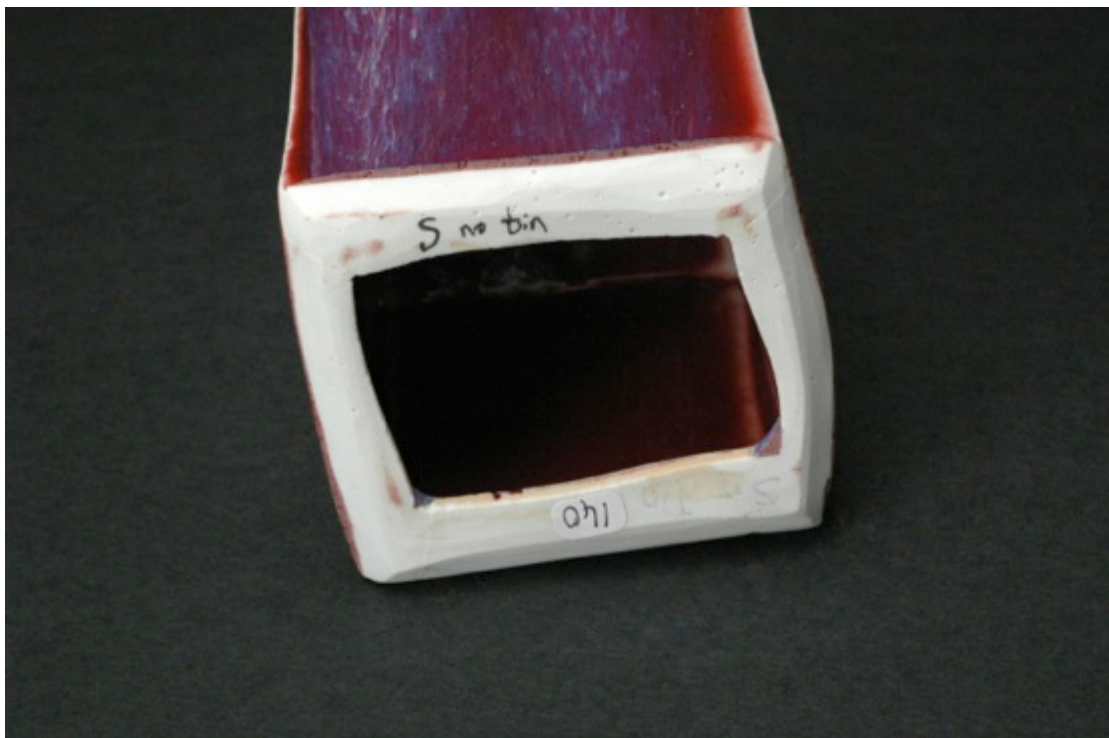
Sams's red no tin, reduction firing, Cobblestone Nr. 140



Sams's red no tin, reduction firing, Cobblestone Nr. 140



Sams's red no tin, reduction firing, Cobblestone Nr. 140



Sams's red no tin, reduction firing, Cobblestone Nr. 140



Sams's red no tin, double reduction firing, Cobblestone Nr. 80



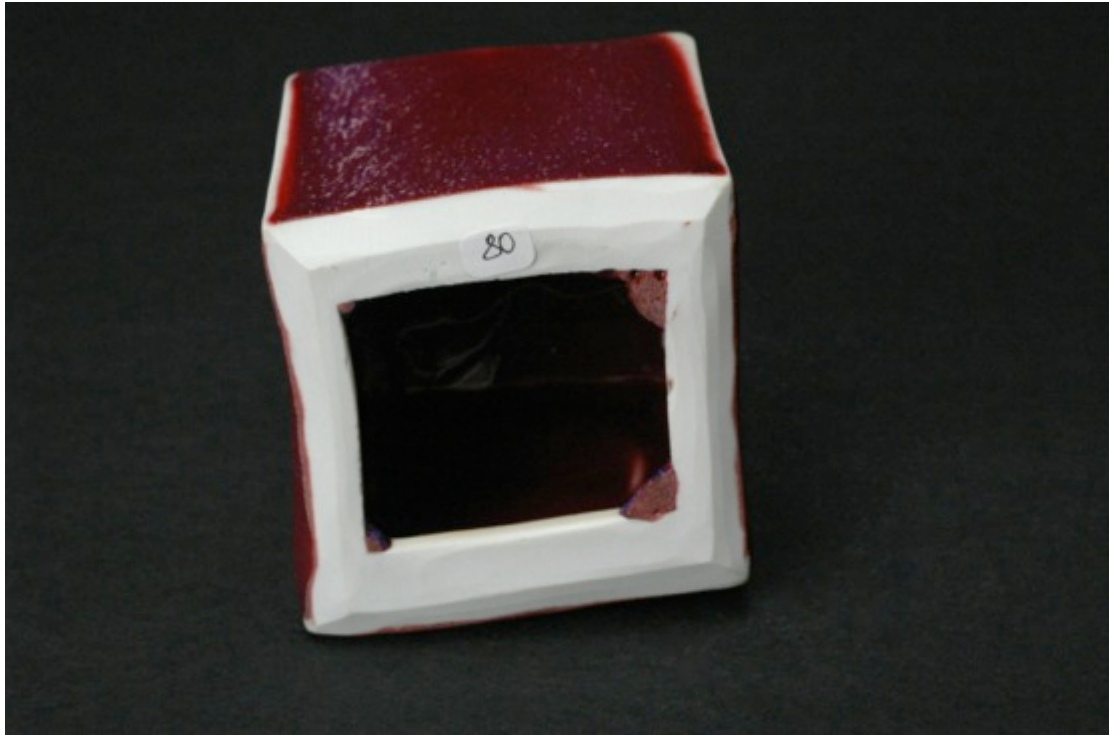
Sams's red no tin, double reduction firing, Cobblestone Nr. 80



Sams's red no tin, double reduction firing, Cobblestone Nr. 80



Sams's red no tin, double reduction firing, Cobblestone Nr. 80



Sams's red no tin, double reduction firing, Cobblestone Nr. 80



Sams's red no tin, neutral firing, Cobblestone Nr. 10



Sams's red no tin, neutral firing, Cobblestone Nr. 10



Sams's red no tin, neutral firing, Cobblestone Nr. 10



Sams's red no tin, neutral firing, Cobblestone Nr. 10

Sam's red no lithium*Cobblestone Nr. 152*

Source: Base glaze recipe by Sam Bakewell.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Total 1		1000
Rutile	RCA	10
Bone ash	RCA	10
Tin	RCA	10
Copper carbonate	RCA	5
Red iron oxide	RCA	5
Total 2		1040

Molecular formula (without colouring oxides)

	CaO	MgO	K₂O	Na₂O	B₂O₃	Al₂O₃	SiO₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

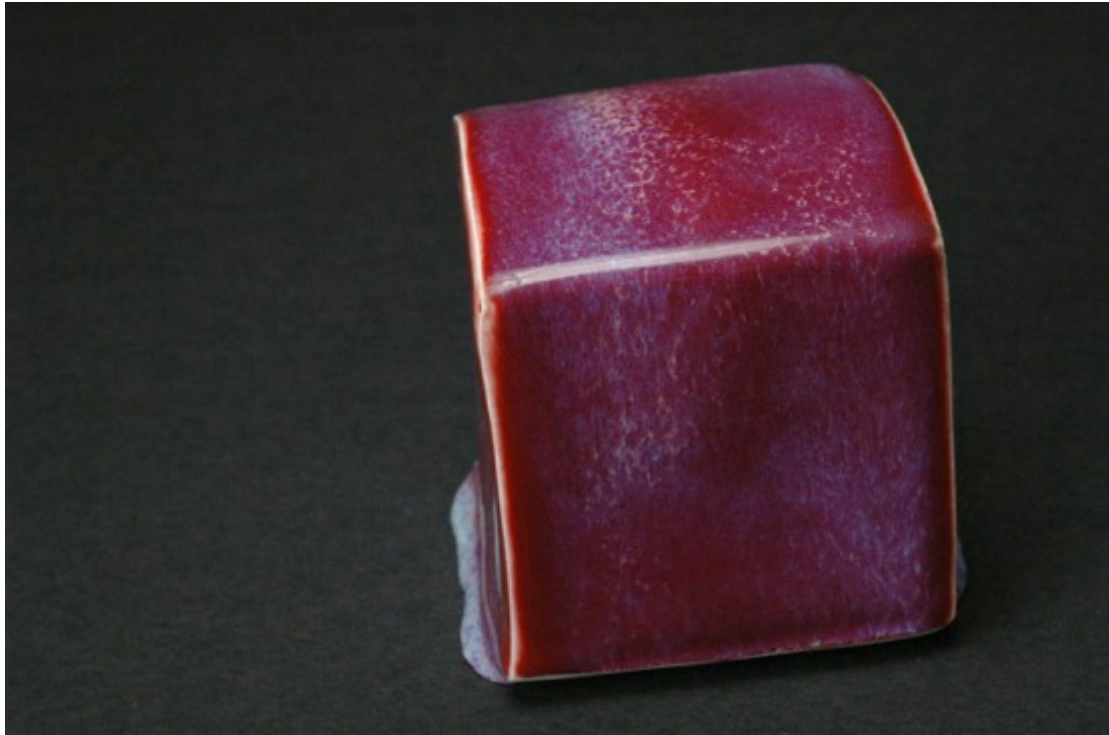
Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C



Sams's red no lithium, reduction firing, Cobblestone Nr. 152



Sams's red no lithium, reduction firing, Cobblestone Nr. 152



Sams's red no lithium, reduction firing, Cobblestone Nr. 152



Sams's red no lithium, reduction firing, Cobblestone Nr. 152

Sam's red no bone ash*Cobblestone Nr. 146, ?*

Source: Base glaze recipe by Sam Bakewell.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	350
Quartz	RCA	200
Whiting	RCA	180
Borax frit 55	RCA	100
Cornish stone	RCA	100
China clay	RCA	70
Rutile	RCA	10
Tin	RCA	10
Copper carbonate	RCA	5
Red iron oxide	RCA	5
Lithium carbonate	RCA	5
Total		1035

Molecular formula (without colouring oxides)

	CaO	MgO	K₂O	Na₂O	B₂O₃	Al₂O₃	SiO₂
Formula	0.69	0.01	0.17	0.13	0.07	0.36	3.51
%	12.35	0.12	5.05	2.50	1.49	11.60	66.77

Molecular weight: 346

Firing protocol

Reduction

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Neutral

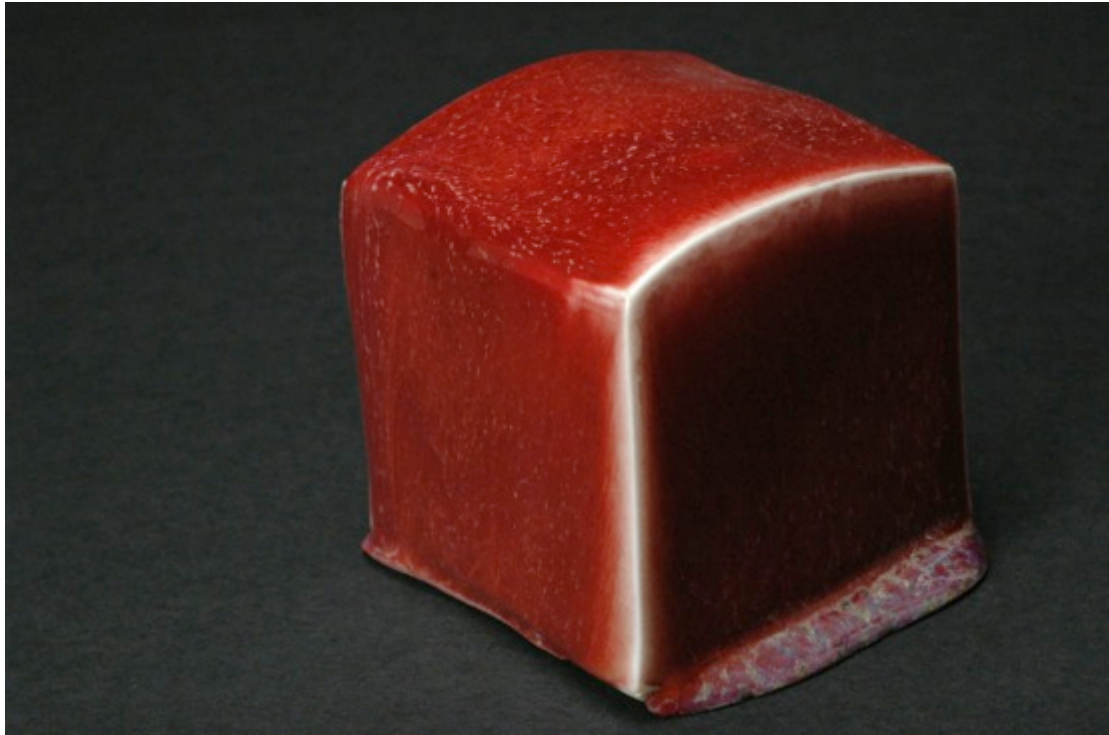
Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Electric Nr 12	1275	8h40	150°C/h	1270-1280



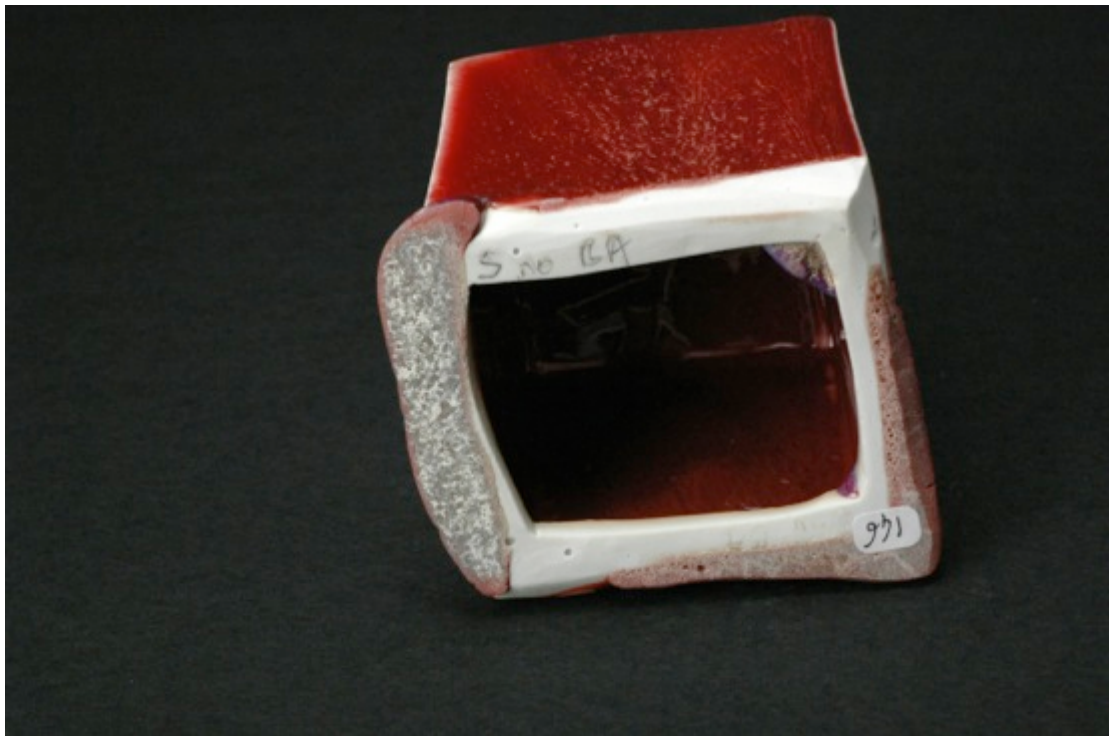
Sams's red no bone ash, reduction firing, Cobblestone Nr. 146



Sams's red no bone ash, reduction firing, Cobblestone Nr. 146



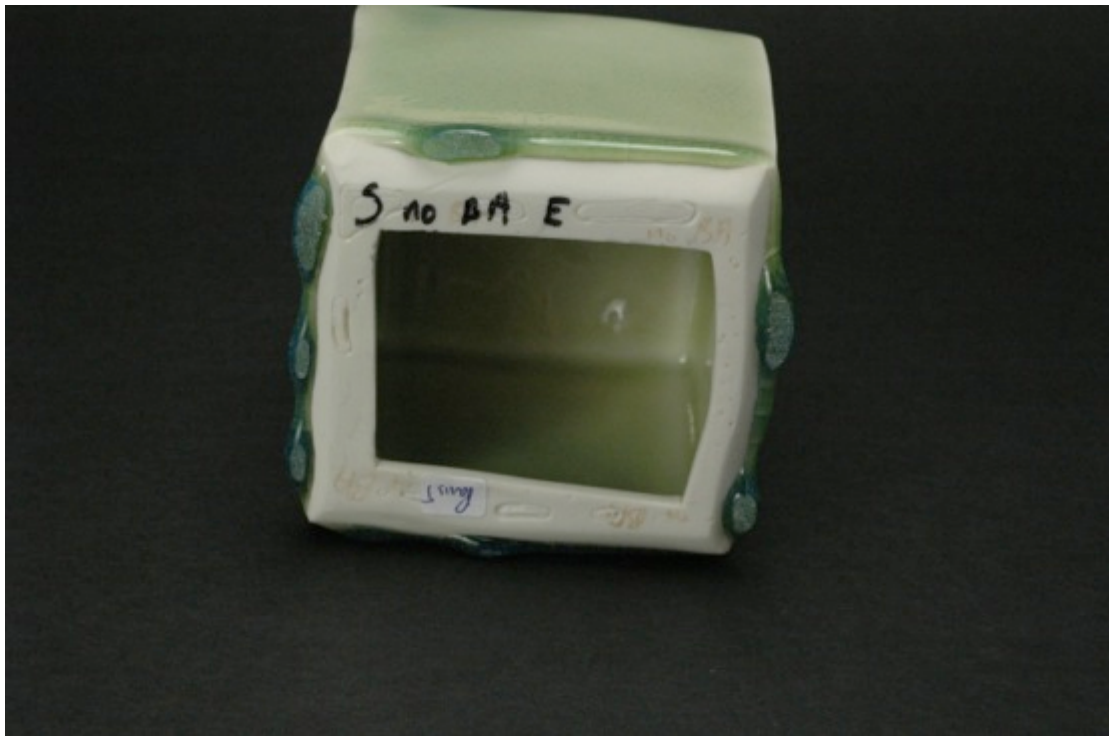
Sams's red no bone ash, reduction firing, Cobblestone Nr. 146



Sams's red no bone ash, reduction firing, Cobblestone Nr. 146



Sams's red no bone ash, neutral firing, Cobblestone Nr. ?



Sams's red no bone ash, neutral firing, Cobblestone Nr. ?

Unknown Red
Cobblestone Nr. 34



Unknown red, reduction firing, Cobblestone Nr. 34



Unknown red, reduction firing, Cobblestone Nr. 34



Unknown red, reduction firing, Cobblestone Nr. 34



Unknown red, reduction firing, Cobblestone Nr. 34

FISH-SCALE

Glaze Nr. 201

Cobblestones Nr. 128, 131, 190

Source: Reverse-engineered from X-Ray analysis of Japanese sample shard with fish-scale glaze.

Recipe

Material	Source	
Nepheline syenite	Boos (A200)	53
Potassium feldspar	Boos (FAII)	25.7
Silica	Boos (E400)	12.5
Whiting	Boos (BL)	5.2
Barium carbonate	RCA	2.7
Dolomite	Boos (DRB 20)	0.9
TOTAL		100.0

Molecular formula

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃
Formula	0.27	0.03	0.06	0.27	0.38	0.69	4.30	0.00
%	3.73	0.29	2.18	6.33	5.77	17.43	64.18	0.10

Molecular weight: 419

Firing

Neutral 1

Kiln	Temperature (set)	Length	Speed	Soak	Temperature (reached)
Electric Nr 12	1230	8h10	150°C/h	1h	1280°C

Neutral 2

Kiln	Temperature (set)	Length	Speed	Soak	Temperature (reached)
Electric Nr 12	1280	8h10	150°C/h	-	1280°C



201



201, neutral firing 1, Cobblestone Nr. 128



201, neutral firing 1, Cobblestone Nr. 128



201, neutral firing 1, Cobblestone Nr. 128



201, neutral firing 1, Cobblestone Nr. 131



201, neutral firing 1, Cobblestone Nr. 131



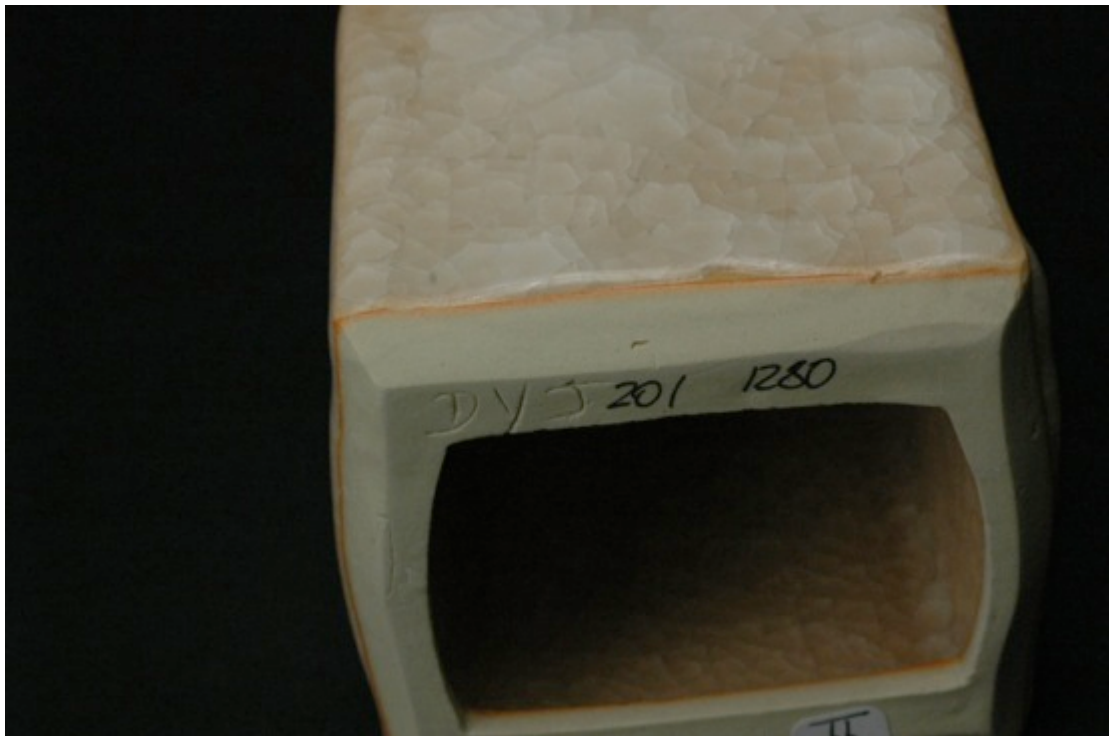
201, neutral firing 1, Cobblestone Nr. 131



201, neutral firing 1, Cobblestone Nr. 131



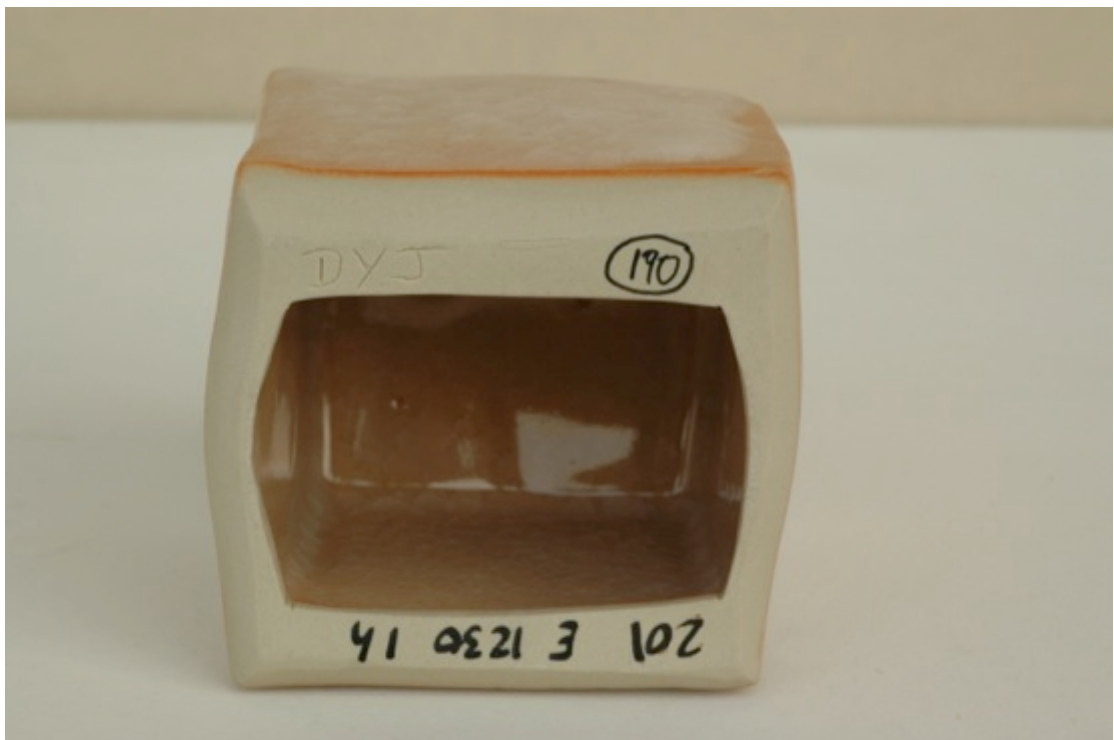
201, neutral firing 1, Cobblestone Nr. 131



201, neutral firing 1, Cobblestone Nr. 131



201, neutral firing 2, Cobblestone Nr. 190



201, neutral firing 2, Cobblestone Nr. 190

Glaze Nr. 201 + 0.15 Fe
Cobblestone Nr. 92, 95, 115, 191

Source: Reverse-engineered from X-Ray analysis of Japanese sample shard
 with fish-scale glaze + red iron oxide to colour.

Recipe

Material	Source	
Nepheline syenite	Boos (A200)	53
Potassium feldspar	Boos (FAII)	25.7
Silica	Boos (E400)	12.5
Whiting	Boos (BL)	5.2
Barium carbonate	RCA	2.7
Dolomite	Boos (DRB 20)	0.9
TOTAL		100.0
Red iron oxide	RCA	0.15

Firing

Reduction 1

Kiln	Temperature (set)	Temperature (reached)
Gas kiln Nr. 9	1230 Reduction 850	1280-1300°C

Reduction 2

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr. 8	1235 Reduction 850	8h00	~150°C/h	1260-1280°C

Position: Floor 3/Front shelf/Front row



201 + 0.15% Fe



201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 92



201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 92



201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 115



201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 115



201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 115



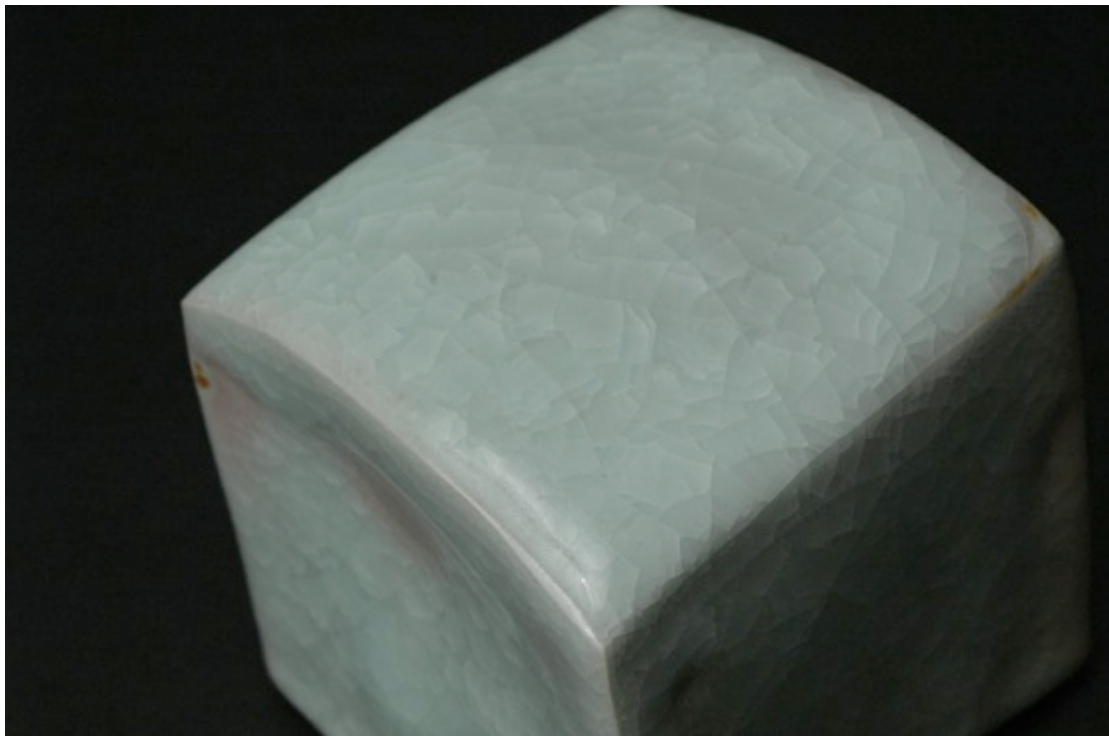
201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 191



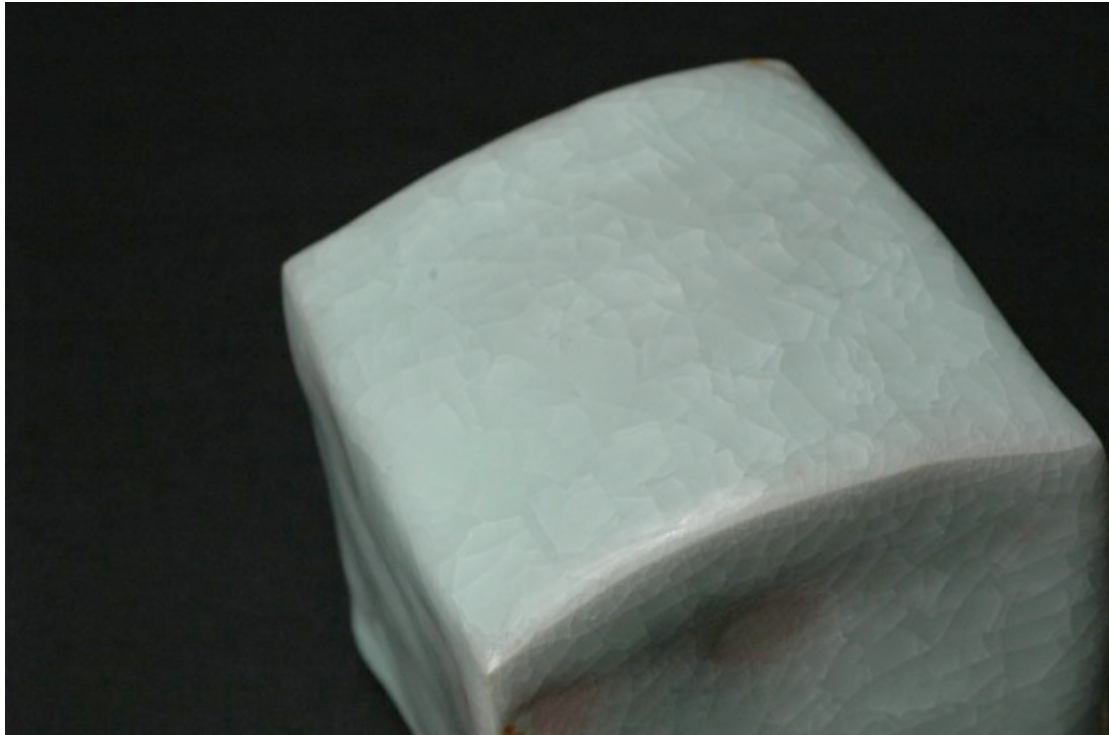
201 + 0.15 Fe, reduction firing 1, stained porcelain body, Cobblestone Nr. 191



201 + 0.15 Fe, reduction firing 2, stained porcelain body, Cobblestone Nr. 95



201 + 0.15 Fe, reduction firing 2, stained porcelain body, Cobblestone Nr. 95



201 + 0.15 Fe, reduction firing 2, stained porcelain body, Cobblestone Nr. 95



201 + 0.15 Fe, reduction firing 2, stained porcelain body, Cobblestone Nr. 95

OTHER GLAZES

Glaze Nr. 70

Cobblestones Nr. 70, 39, 101, 120, 135, 156, 173

Source: Recipe given by Takeshi Yasuda.

Recipe

Material	Source	Quantity	
Cornish stone	RCA	75	48.4
Wollastonite	RCA	60	38.7
China clay	Boos (Kaolin Beauvoir BIP)	10	6.5
Talc	Boos (Luzenac)	5	3.2
Petalite	RCA	5	3.2
TOTAL		155.0	100.0

Molecular Formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3
Formula	0.78	0.08	0.05	0.08	0.01	0.24	2.51	0
%	18.79	1.34	2.07	2.07	0.16	10.67	64.70	0.20

Molecular weight: 238

Firing

Neutral

Kiln	Temperature (set)	Length	Speed	Soak	Temperature (reached)
Electric Nr 23	1200	24h00	50°C/h	1h	Cone 8 (1263°C)

Weak reduction

Kiln	Temperature (set)	Length	Speed	Temperature (reached)
Gas kiln Nr 8	1225 Reduction 850	8h00	~150°C/h	Cone 8 (1263°C)



70



70, neutral firing, Cobblestone Nr. 120



70, neutral firing, Cobblestone Nr. 120



70, neutral firing, Cobblestone Nr. 120



70, neutral firing, Cobblestone Nr. 135



70, neutral firing, Cobblestone Nr. 135



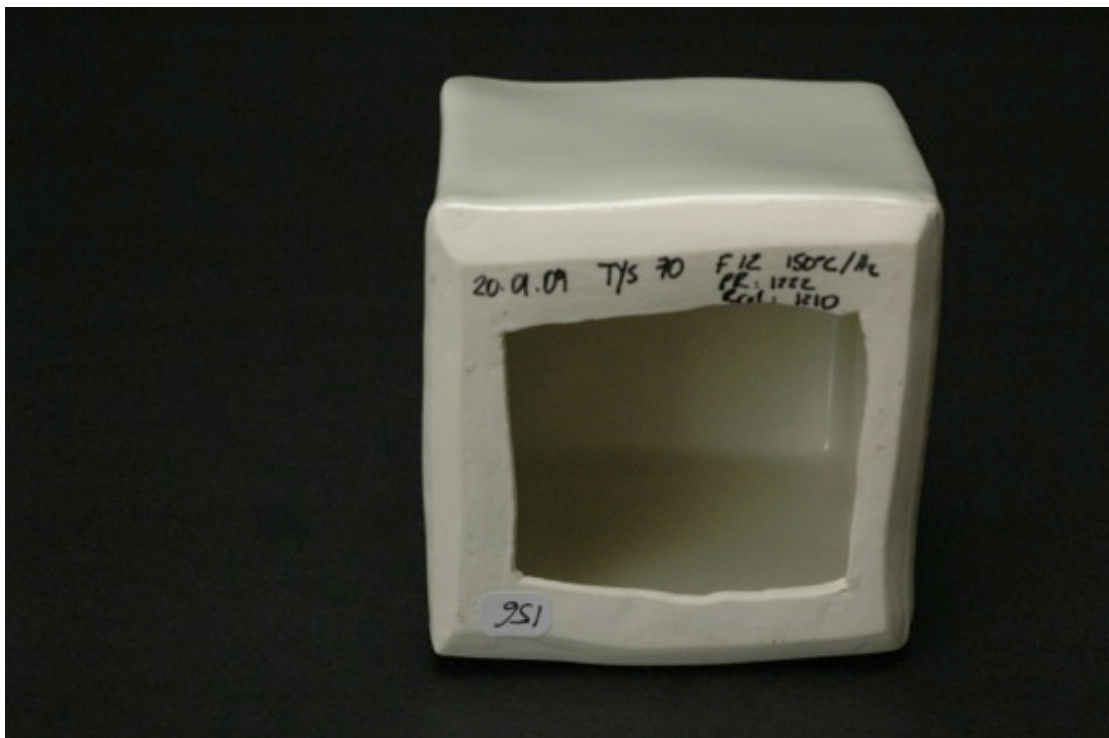
70, neutral firing, Cobblestone Nr. 135



70, neutral firing, Cobblestone Nr. 135



70, neutral firing, Cobblestone Nr. 156



70, neutral firing, Cobblestone Nr. 156



70, neutral firing, Cobblestone Nr. 173



70, neutral firing, Cobblestone Nr. 173



70, weak reduction firing, Cobblestone Nr. 101



70, weak reduction firing, Cobblestone Nr. 101

Description:

- Monochrome glaze
- Semi-matt
- Smooth surface
- Subtle, textured film over glaze (for gas version only)
- Rolls of glaze at foot. Drops
- Clear sound (no body cracks)
- Electric kiln version more shiny
- Sense of volume rather than sense of surface

Glaze Nr. 70 + 1% CuO
Cobblestone Nr. 73

Source: Recipe provided by Takeshi Yasuda.

Recipe

Material	Source	Quantity	
Cornish stone	RCA	75	48.4
Wollastonite	RCA	60	38.7
China clay	Boos (Kaolin Beauvoir BIP)	10	6.5
Talc	Boos (Luzenac)	5	3.2
Petalite	RCA	5	3.2
TOTAL		155.0	100.0
Copper carbonate	RCA	1.5	1.0

Molecular Formula

	CaO	MgO	K2O	Na2O	Li2O	Al2O3	SiO2	Fe2O3
Formula	0.78	0.08	0.05	0.08	0.01	0.24	2.51	0
%	18.79	1.34	2.07	2.07	0.16	10.67	64.70	0.20

Molecular weight: 238

Firing

Kiln	Temperature (set)	Length	Speed	Soak	Temperature (reached)
Electric Nr 12	1220	8h10	150°C/h	30'	Cone 8 (1263°C)



70 + 1% Cu, neutral firing, Cobblestone Nr. 73



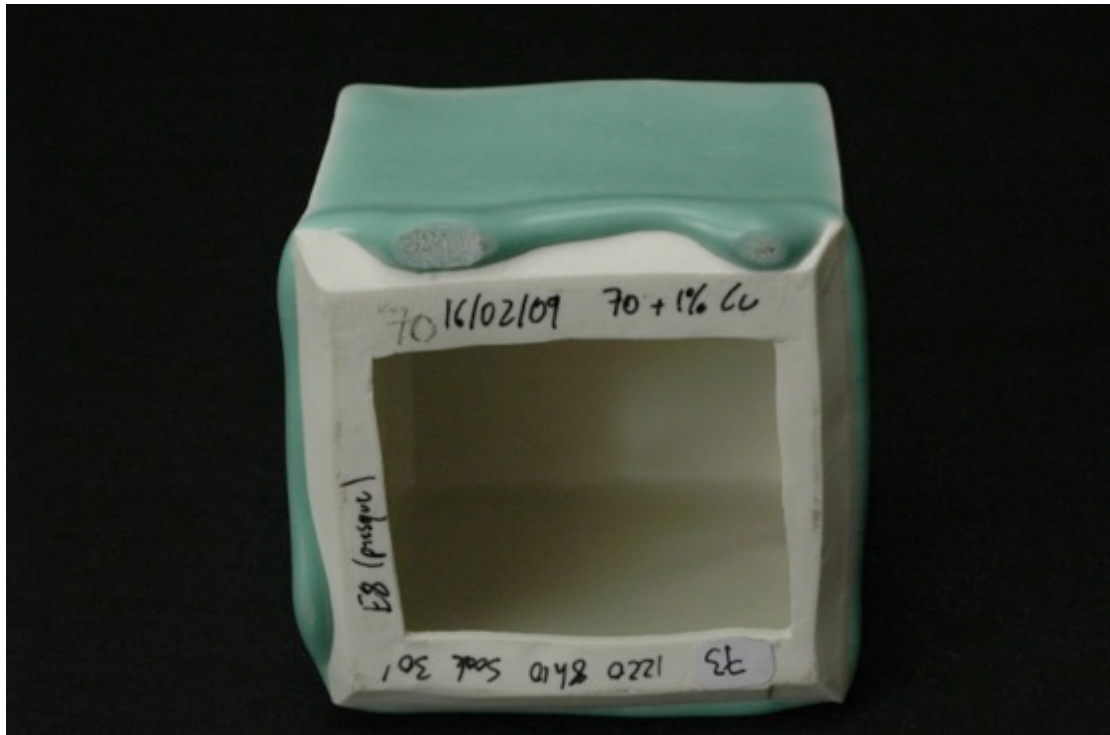
70 + 1% Cu, neutral firing, Cobblestone Nr. 73



70 + 1% Cu, neutral firing, Cobblestone Nr. 73



70 + 1% Cu, neutral firing, Cobblestone Nr. 73



70 + 1% Cu, neutral firing, Cobblestone Nr. 73

Description:

- Monochrome glaze.
- Semi-matt.
- Smooth surface.
- Subtle, textured film over glaze.
- Blurry effect through grain and materiality.
- The green layer (in the form of speckles on the upper face or streaks on the sides) appears as if behind a veil.
- Sense of surface (both horizontal and vertical)
- Rolls of glaze at foot. Drops. Very thin towards the top of vertical faces.
- Clear sound (no body cracks)

TAKATO'S BLUE
Cobblestone Nr. 63

Source: Recipe given by Takato Sasaki.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	49
Barium carbonate	RCA	27
Whiting	Boos (Chaux BL)	14
Ball clay	RCA (HP 71)	9
Bentonite	RCA	1
TOTAL		100
Copper carbonate	RCA	2.5

Molecular Formula

	CaO	MgO	BaO	K ₂ O	Na ₂ O	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
Formula	0.40	0.02	0.39	0.14	0.05	0.26	2.02	0.00	0.01
%	8.97	0.27	24.19	5.43	1.25	10.59	48.97	0.15	0.17

Molecular weight: 286

Firing

Kiln	Temperature (set)	Length	Speed	Temperature
Electric Nr 12	1270	8h30	150°C/h	1280°C



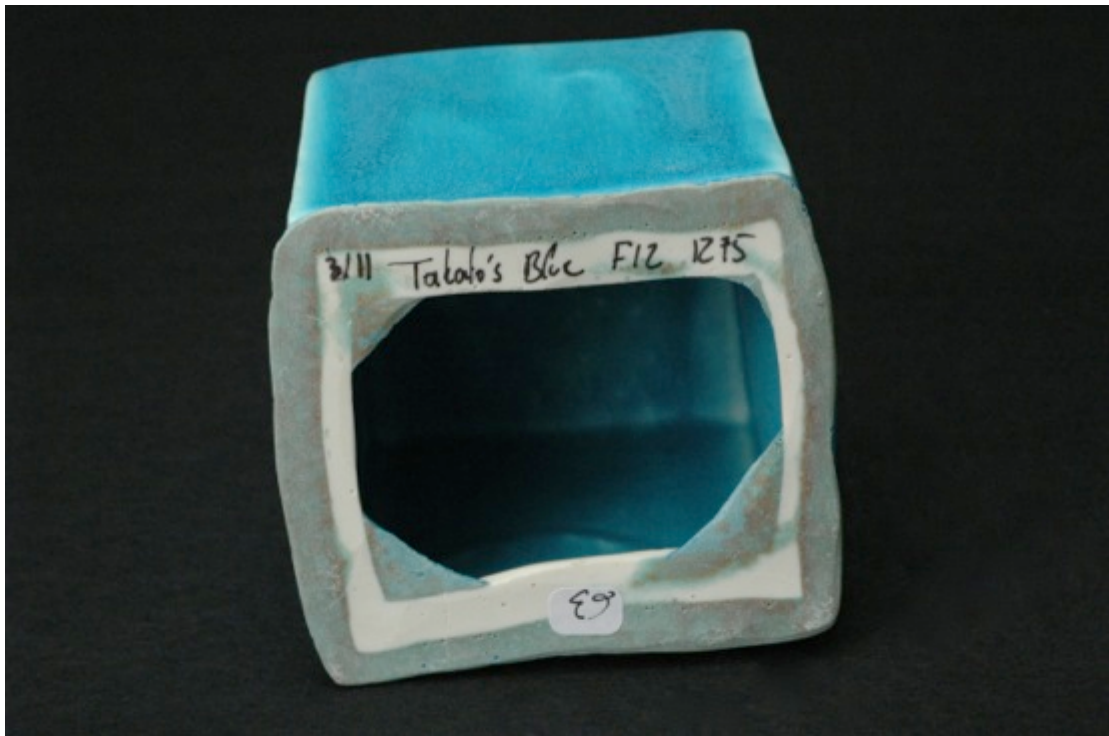
Takato's blue, neutral firing, Cobblestone Nr. 63



Takato's blue, neutral firing, Cobblestone Nr. 63



Takato's blue, neutral firing, Cobblestone Nr. 63



Takato's blue, neutral firing, Cobblestone Nr. 63

SIGNE'S BLACK
Cobblestones Nr. 171, 186

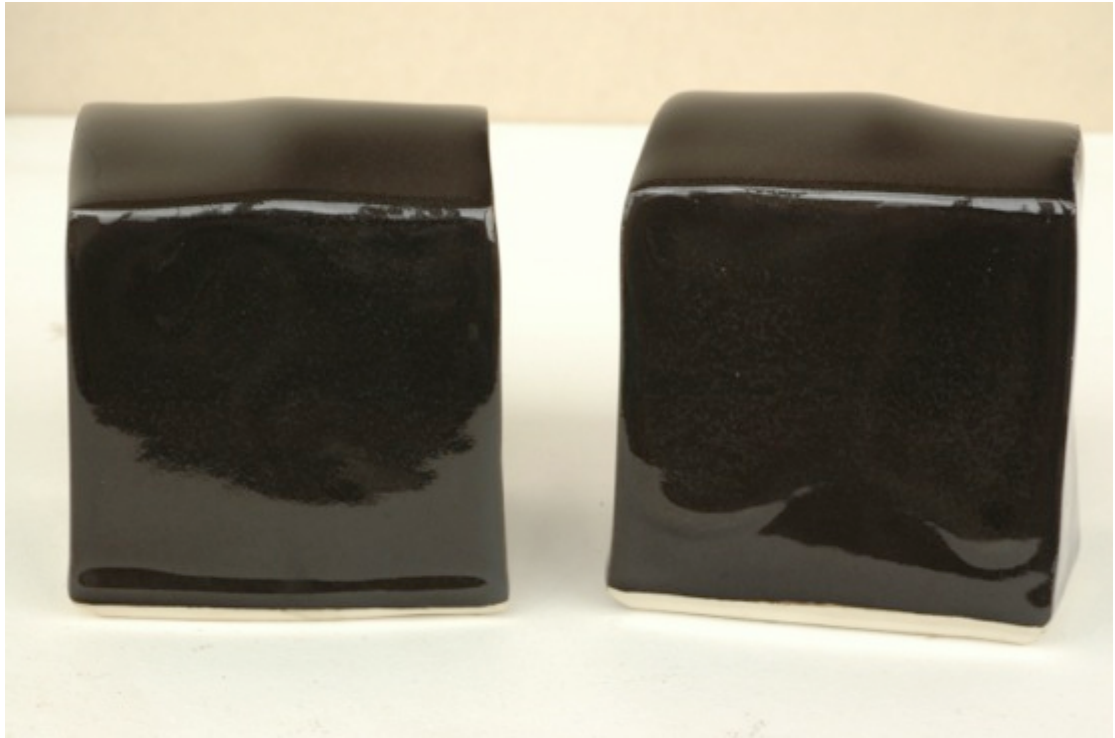
Source: Recipe given by Signe Schjøth.

Recipe

Material	Source	Quantity
Potash feldspar	RCA	36
Quartz	RCA	28
Strontium carbonate	RCA	9
Whiting	Boos (Chaux BL)	14
Borax frit	RCA (2955)	9
China clay	RCA	5
Talc	RCA	4
TOTAL		100
Manganese oxide	RCA	5
Iron oxide	RCA	5
Chrome oxide	RCA	2
Cobalt carbonate	RCA	1

Firing

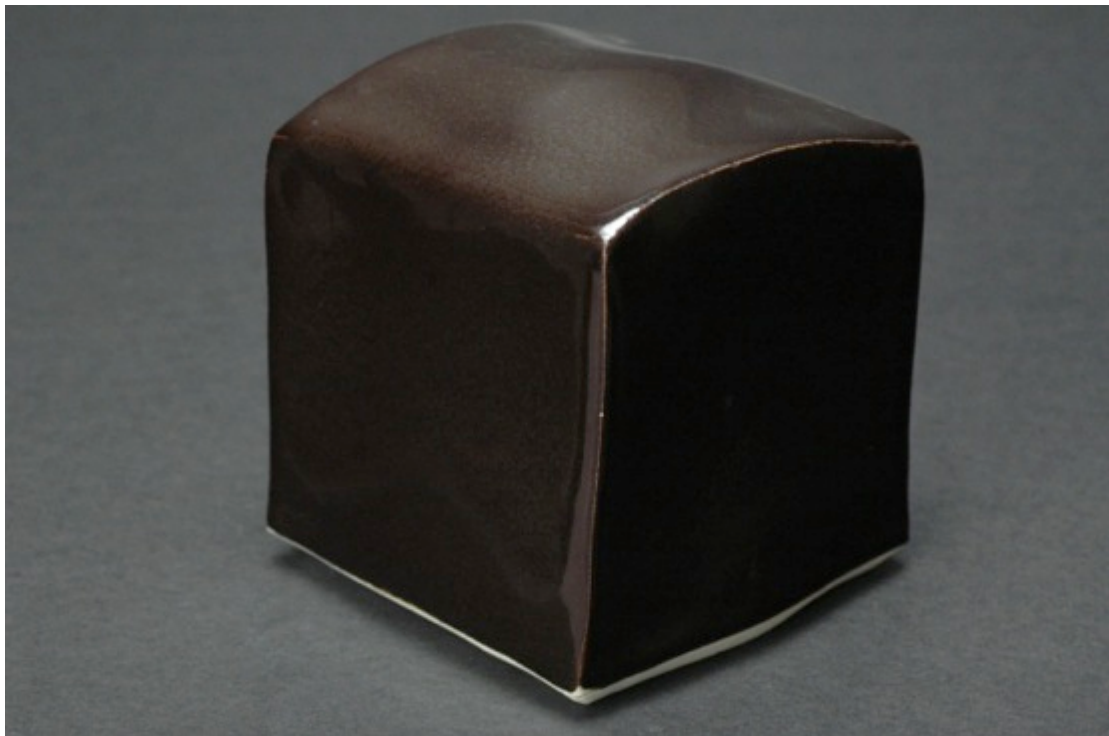
Kiln	Temperature (set)	Length	Speed	Soak	Temperature
Electric Nr 12	1270°C	8h30	150°C/h	20'	1280°C



Signe's black



Signe's black, neutral firing, Cobblestone Nr. 171



Signe's black, neutral firing, Cobblestone Nr. 171



Signe's black, neutral firing, Cobblestone Nr. 171

SIGNE'S RED
Cobblestones Nr. 77, 181-1

Source: Earthenware glaze 264 from Cebex given by Signe Schjøth.

Temperature 1020-1060°C.



Signe's red



Signe's red, Cobblestone Nr. 77



Signe's red, Cobblestone Nr. 77



Signe's red (right), Cobblestone Nr. 181-1

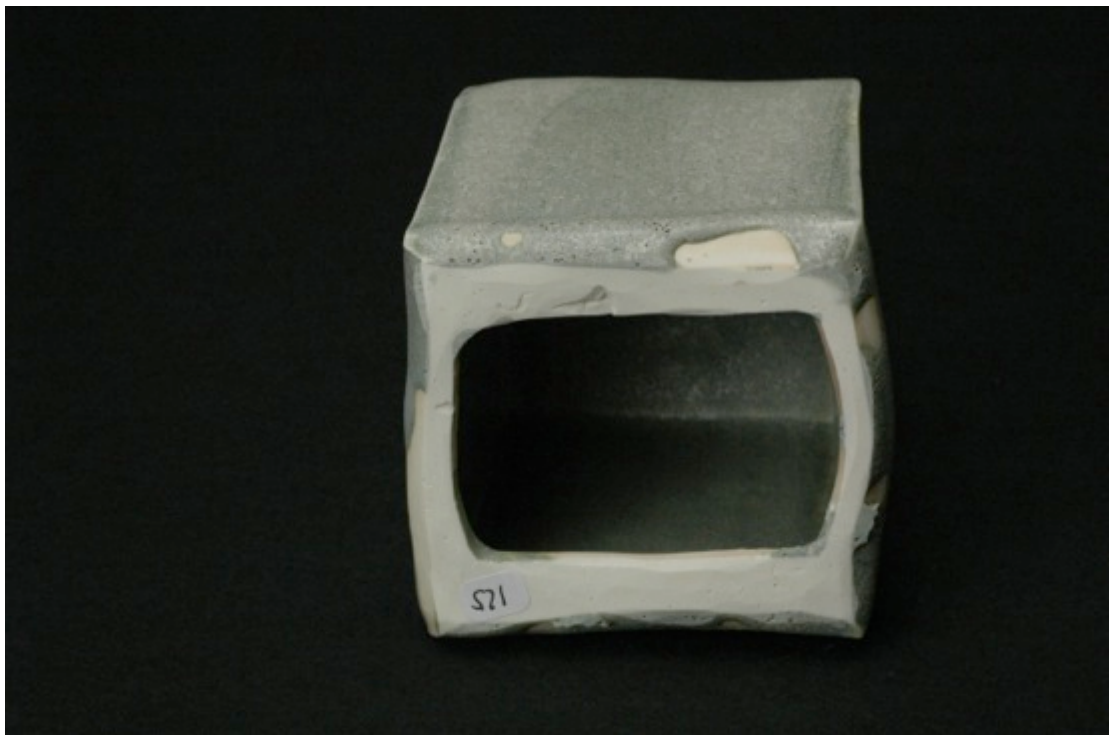


Signe's red (left), Cobblestone Nr. 181-1

UNKNOWN GLAZE
Cobblestone Nr. 125



Unknown glaze, Cobblestone Nr. 125



Unknown glaze, Cobblestone Nr. 125