

WOE Test (Warm Orange Eggshell) Test #1



	100	102	93	100
Silica	22	18	18	18
Kaolin (EPK)	9	8	8	8
Ball Clay (OM-4)	8	7	7	7
Potash Feldspar (Cluster)	44	37	37	37
Whiting	17	14	5	5
G. Borate		8	8	8
Frit 3134		10	10	10
Talc				7
(KNa)O [0.1 to 0.3]	0.526	0.269	0.383	0.296
MgO [0 to 0.3]	0.011	0.032	0.043	0.224
CaO [0.2 to 0.6]	0.463	0.698	0.572	0.479
Al ₂ O ₃ [0.25 to 0.5]	0.989	0.375	0.534	0.412
B ₂ O ₃ [0 to 0.3]	0	0.205	0.292	0.224
SiO ₂ [0.25 to 0.4]	7.574	3.154	4.487	3.688
Si:Al	7.66	8.40	8.40	8.98

Notes:

translucency: Opaque Cobalt 5% for rich midnight blue. Superpax 10% for bright white, very good color response with on glaze stains.

submitted by: Jo Ann Stevens e-mail: jstevens@niagara.com source for original recipe: Emanuel Cooper

#1 original recipe

#2 added boron sources, still high CaO

#3 lowered CaO

#4 added MgO (Talc). This glaze is within Hesselberth & Roy limits

Consider lowering (KNa)O

Results:

#1 may be matte or just thin.

#2 has microscopic bubbles

#3 and #4 seem like a good clear base with a glossy surface.