

FUSED SILICA (Potassium Feldspar based)

Porcelain Casting Slip
(Linda Swanson)
Cone 9
43.7 Grolleg
25.2 Flint
31.1 Minspar 200

The fused silica tests we did were mixes of clay and fluxes, in this section we used predominantly Potassium Feldspars. We mixed porcelain slip and the fluxes in 25/75, 50/50, and 75/25 ratios, and we have included the final recipe calculations.

Fused Silica (orig.)
38.5 Custer Feldspar
44 Silica
12 EPK
5.5 Dolomite

The recipes were mixed to a glaze consistency and were sprayed using a glaze spray gun onto textured bisqued tiles. They were then fired up to cone 6 and cone 9.

To limit the waste when spraying into the spray booth we used a plastic sheet underneath the tiles so that we could scrape up the excess material and add it back into the container.



39.7 Custer Feldspar
26.2 Grolleg
26 Silica
3.8 Calcium Carbonate
3 EPK
1.3 Dolomite

39.5 Custer Feldspar
17.5 Grolleg
32 Silica
2.5 Calcium Carbonate
6 EPK
2.5 Dolomite

38.8 Custer Feldspar
8.75 Grolleg
38 Silica
1.25 Calcium Carbonate
9 EPK
4.2 Dolomite



9.75 Nepheline Syenite
 30 Custer Feldspar
 26 Silica
 26.2 Grolleg
 3.8 Calcium Carbonate
 2.75 EPK
 1.5 Dolomite

19.5 Nepheline Syenite
 20 Custer Feldspar
 32 Silica
 17.5 Grolleg
 2.5 Calcium Carbonate
 5.5 EPK
 3 Dolomite

29.2 Nepheline Syenite
 10 Custer Feldspar
 37.9 Silica
 8.75 Grolleg
 1.25 Calcium Carbonate
 8.4 EPK
 4.5 Dolomite