

FUSED SILICA

Porcelain Casting Slip
(Linda Swanson)

Cone 9

43.7 Grolleg

25.2 Flint

31.1 Minspar 200

Fused Silica (orig.)

38.5 Custer Feldspar

44 Silica

12 EPK

5.5 Dolomite

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

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.



C6

C9



30.7 Custer Feldspar
27 Grolleg
15.4 Flint
3.8 Calcium Carbonate
23.1 Frit 3110

30.7 Custer Feldspar
27 Grolleg
15.4 Flint
3.8 Calcium Carbonate
23.1 Frit 3124



C6



C9

- 20 Custer Feldspar
- 17.5 Grolleg
- 10 Flint
- 2.5 Calcium Carbonate
- 50 Nepheline Syenite

- 22.5 Bone Ash
- 15 Grolleg
- 12.5 Custer Feldspar
- 50 Nepheline Syenite