MASON STAINS



Key to Composition ... see page 81

Al Aluminum Oxide	Al ₂ O ₃	Pr Praseodymium Oxide	Pr ₆ O ₁₁
B Boric Acid	B ₂ O ₃	Sb Antimony Oxide	Sb ₂ O ₃
Ca Calcium Carbonate	CaO	Si Silicon Dioxide	SiO ₂
Co Cobalt Oxide	CoO	Sn Tin Dioxide	SnO ₂
Cr Chromium Oxide	Cr ₂ O ₃	Ti Titanium Dioxide	TiO ₂
Fe Iron Oxide	Fe ₂ O ₃	V Vanadium	V ₂ O ₅
Mn Manganese Dioxide	MnO ₂	Zn Zinc Oxide	ZnO
Ni Nickel Oxide	NiO	Zr Zirconium Dioxide	ZrO ₂

Using Mason Stains

For use as a stain in clays as well as for brushwork over or under glaze:

For Δ 10: mix 1:1 stain to G200 Feldspar. For $\Delta 4$ -6: mix 1:1 stain to Nepheline Syenite. For $\Delta 06$: mix 1:1 stain to Ferro Frit 3124 or Frit 3110.

When making your own glazes, liquid glaze should reach the consistency of whole milk. Add Mason Stains by weight as a percentage of dry ingredients. Use .5% to 3% for Green, Black & Blue, or 2% to 8% for Pink, Purple and Yellow.

When mixing your own clay, add Mason Stains by weight as a percentage of dry ingredients: 2% to 5% for Green, Blue or Black, or 5% to 10% for Pink, Purple and Yellow.

Engobes and underglazes should reach consistency of cream. Add Mason Stains by weight as a percentage of dry ingredients: 3% to 10% for Green, Blue & Black, or 8% to 15%for Pink, Purple and Yellow.

When coloring moist clay, allow for 30% water, then add Mason Stains by weight as a percentage of the estimated dry ingredients (ie, 17½lbs dry clay out of 25lbs total wet clay weight).

Reference Notes (see page 81)

- Can use as porcelain body stain ($\Delta 6 \& \Delta 10$) 1.
- 2. Max firing limit 2156° F (1180° C)
- Max firing limit 2390° F (1310° C) 3.
- Max firing limit 1976° F (1080° C) 4.
- 5. DO NOT USE ZINC in the glaze
- 6. Stain may be used with or without zinc
- 7. Zinc not necessary, but gives better results
- 8. Best results with NO zinc
- 9. Glaze must contain 6.7%-8.4% calcium oxide
- * Zinc-free glazes should generally not contain magnesium oxide. Some stain colors containing zinc should be used in glazes without additional zinc. The zinc-free oxide can change the glaze's fired color.
- * Calcium oxide content (in calcium carbonate) should be 12-15% for best color. Adding the molecular equivalent of calcium oxide with Wollastonite often gives better uniformity, but you should factor in Wollastonite's higher silica content.