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 MA6371	 MA6306	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 5px;">Key to Composition</div> <table border="0"> <tr><td>Al</td><td>.....</td><td>Aluminum Oxide</td><td>.....</td><td>Al₂O₃</td></tr> <tr><td>B</td><td>.....</td><td>Boric Acid</td><td>.....</td><td>B₂O₃</td></tr> <tr><td>Ca</td><td>.....</td><td>Calcium Carbonate</td><td>.....</td><td>CaO</td></tr> <tr><td>Co</td><td>.....</td><td>Cobalt Oxide</td><td>.....</td><td>CoO</td></tr> <tr><td>Cr</td><td>.....</td><td>Chromium Oxide</td><td>.....</td><td>Cr₂O₃</td></tr> <tr><td>Fe</td><td>.....</td><td>Iron Oxide</td><td>.....</td><td>Fe₂O₃</td></tr> <tr><td>Mn</td><td>.....</td><td>Manganese Dioxide</td><td>.....</td><td>MnO₂</td></tr> <tr><td>Ni</td><td>.....</td><td>Nickel Oxide</td><td>.....</td><td>NiO</td></tr> <tr><td>Pr</td><td>.....</td><td>Praseodymium Oxide</td><td>.....</td><td>Pr₆O₁₁</td></tr> <tr><td>Sb</td><td>.....</td><td>Antimony Oxide</td><td>.....</td><td>Sb₂O₃</td></tr> <tr><td>Si</td><td>.....</td><td>Silicon Dioxide</td><td>.....</td><td>SiO₂</td></tr> <tr><td>Sn</td><td>.....</td><td>Tin Dioxide</td><td>.....</td><td>SnO₂</td></tr> <tr><td>Ti</td><td>.....</td><td>Titanium Dioxide</td><td>.....</td><td>TiO₂</td></tr> <tr><td>V</td><td>.....</td><td>Vanadium</td><td>.....</td><td>V₂O₅</td></tr> <tr><td>Zn</td><td>.....</td><td>Zinc Oxide</td><td>.....</td><td>ZnO</td></tr> <tr><td>Zr</td><td>.....</td><td>Zirconium Dioxide</td><td>.....</td><td>ZrO₂</td></tr> </table> </div>			Al	Aluminum Oxide	Al ₂ O ₃	B	Boric Acid	B ₂ O ₃	Ca	Calcium Carbonate	CaO	Co	Cobalt Oxide	CoO	Cr	Chromium Oxide	Cr ₂ O ₃	Fe	Iron Oxide	Fe ₂ O ₃	Mn	Manganese Dioxide	MnO ₂	Ni	Nickel Oxide	NiO	Pr	Praseodymium Oxide	Pr ₆ O ₁₁	Sb	Antimony Oxide	Sb ₂ O ₃	Si	Silicon Dioxide	SiO ₂	Sn	Tin Dioxide	SnO ₂	Ti	Titanium Dioxide	TiO ₂	V	Vanadium	V ₂ O ₅	Zn	Zinc Oxide	ZnO	Zr	Zirconium Dioxide	ZrO ₂
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Using Mason Stains

- To stain clay, or for brushwork over or under glaze:
For Δ10: mix 1:1 stain to Custer Feldspar or Unispar.
For Δ4-6: mix 1:1 stain to Nepheline Syenite.
For Δ06: mix 1:1 stain to Ferro Frit 3124 or Frit 3110.
- When making your own glazes, liquid glaze should reach 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 Yellow, Pink and Purple.
- 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 Yellow, Pink, Purple.
- 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 Yellow, Pink and Purple.
- 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 stain out of 25lbs total wet clay weight).

Reference Notes

- Can be used as porcelain body stain at Δ6 or Δ10
- Max firing limit 2156° F (1180° C)
- Max firing limit 2390° F (1310° C)
- Max firing limit 1976° F (1080° C)
- DO NOT USE ZINC in glaze
- Stain may be used with or without zinc
- Zinc not necessary, but gives better results
- Best results with NO zinc
- 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.