

## Monofrax® Type K Cement

### Product Description

Monofrax® K chrome-alumina air setting mortar is recommended in furnace construction, particularly with Monofrax K-3 chrome-alumina fused cast refractories. Its very high resistance to molten glasses and slags is determined largely by its oxide constituents. High refractoriness and corrosion resistance and low shrinkage are provided by this dense, low permeable cement. Green Monofrax K cement is easy to trowel.

Monofrax K cement is shipped dry in 100 lb. bags. Amount normally required is approximately 3% by weight of blocks to be mortared.

(Heat setting cement available on request.)

### Typical Chemistry

Cr <sub>2</sub> O <sub>3</sub> .....	17.6%
Al <sub>2</sub> O <sub>3</sub> .....	72.4%
SiO <sub>2</sub> .....	8.3%
Fe <sub>2</sub> O <sub>3</sub> .....	1.4%
MgO.....	0.3%

### Typical Physical Properties:

Water for trowelling .....	13 - 15%
Density:	
lb/ft <sup>3</sup> (gm/cm <sup>3</sup> ).....	87 (1.39)
Installed density:	
lb/ft <sup>3</sup> (gm/cm <sup>3</sup> ).....	163 (2.61)
Shrinkage	
Dried at 390°F (200°C) .....	3.2%
Fired at 2550°F (1400°C).....	(total) 3.8%
Modulus of rupture	
Fired at 2550°F (1400°C).....	1850 lb/in <sup>2</sup>
Maximum service	
temperature.....	3200°F (1760°C)

### Typical Applications

- Fiberglass furnace linings
- Metallurgical furnace linings subject to corrosive slags

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