

Monofrax[®] Type HMS Cement

Product Description

Monofrax[®] HMS 90% alumina air setting cement is recommended for most furnace construction with all fused cast refractories. Its high resistance to molten glasses and slags is determined largely by its highest quality refractory ingredients. High refractoriness, high purity, low shrinkage and low outgassing are provided by its dense, low permeable structure. HMS cement turns red from color-coding organic dye when water is added. It is readily troweled.

Typical Chemistry

Al ₂ O ₃	90.0%
SiO ₂	8.0%
Fe ₂ O ₃	0.1%
CaO + MgO	0.2%
TiO ₂	0.1%
Alkalies	1.5%
Other	0.1%

Typical Physical Properties:

Density lb/ft ³ (g/cm ³)	
Loose	79 (1.27)
Installed	136 (2.18)
Shrinkage	
Dried at 390°F (200°C)	2.9%
Fired at 2550°F (1400°C)	4.2%
Modulus of rupture	
Fired at 2550°F (1400°C)	1650 psi
Water for troweling:	
(approx. 1¼ gallons per 100 lb. cement)	
Maximum service temperature	3200°F (1760°C)



Typical Applications

- Vertical joint patching of multiple campaign Monofrax M glass tank refiner sidewalls
- Retard erosion of superstructure and prevent shifting of port necks in glass furnaces
- Joint mortar for glass furnace refiner bottom pavings where minimal outgassing is important



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RHI Monofrax LTD
1870 New York Avenue
Falconer, New York 14733-1797
Telephone: 716-483-7200
Fax: 716-483-7273
www.rhi-ag.com
www.monofrax.com