



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMA MORTAR S

Temperature Service:	1480 °C
Classification:	Heat – setting, high alumina bonding mortar.
Main Raw Material Component:	Blended mixture of carefully sized high alumina aggregate.
Type Of Bond:	Ceramic
Grain Size:	0 – 0.6 mm
Water required For Pouring:	25 – 30 %
Features and Main Applications:	Excellent refractory, volume stable free from cracks after drying and after heating to 1600 °C. Excellent workability and adherence. Suitable for troweled or dipped joints and can be sprayed or brushed as a protective coating. Good resistance to attack by molten metal and slag. Although is a heat setting mortar it has moderate strength at all temperatures from drying to maximum use temperature limit. Bonding strength increases as ceramic set develops. Permits expansion of brickwork on heat up without formation of expansion cracks which can result in failure of rigid, air set, refractory brick construction. Recommended for working & Safety layers in steel melting vessels and EAF roof.

Chemical Composition (Calcined base)

Al₂O₃ %	SiO₂ %	Fe₂O₃ %	TiO₂ %
74 – 78	12 – 16	1.7-1.9	2.0-3.5

All data based on cast specimens . ASTM procedures , where applicable , used for determination of data .

For data of application, consult our sales & Engineering service's experts .

All data subject to reasonable deviations , and therefore , should not be used for specification purposes.

ASTM Test Methods, where applicable, used for determination of data.

Revision:2

Date of issue: 1397/09/05

Code: IRF-ST-Q-860-19

Revision:00