



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



MAGNOCAST HD5

Temperature Service:	1750 °C
Classification:	Chemically bonded Basic castable employing high purity burned magnesite .
Main Raw Material Component:	Dead Burned Magnesia
Type Of Bond:	Chemical Bonded
Grain Size:	0 – 5 mm
Water required For Pouring:	7 – 8 %
Dry Castable Required:	2670 Kg/m ³
Features and Main Applications:	High refractoriness ramming and casting mix manufactured from high grade dead-burned magnesite, with special grain structure. Type of bond is chemically that alternate to ceramic. Recommended for universal application in the steel- and nonferrous metal industry.

Chemical Composition (Calcined base)				
MgO %	SiO ₂ %	CaO %	Fe ₂ O ₃ %	Al ₂ O ₃ %
91-93	3.0-5.0	0.8-1.5	0.5-1.0	0.4-0.8

Thermomechanical Properties			
		After drying at 110 °C	After heating at 1500 °C
Bulk Density	(Kg/m ³)	> 2750	–
Cold Crushing Strength	(kg/cm ²)	350-500	300-500
Linear Change	(%)	Negligible	– 0.5

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

For data of vibration cast or gunned, 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.

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