



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



RENO 80

Classification:	Magnesia – Chrome Brick (Burned)
Main Raw Material Component:	Dead Burned Magnesia – Chromite
Type Of Bond:	Ceramic
Main Applications:	Transition Zone of cement rotary kilns, Safety layers in steel melting vessels, Good resistance to thermal shock .

Chemical Composition (Calcined base)				
MgO %	Cr ₂ O ₃ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	SiO ₂ %
78 – 82	8.0 – 11	3.0 – 5.0	2.0 – 3.5	1.5 – 3.0

Physical Properties		
<i>Bulk density</i>	g/cm ³	> 2.90
<i>Cold Crushing Strength</i>	kg/cm ²	300-400
<i>Apparent porosity</i>	%	< 19
<i>Modulus of Rupture</i>	kg/cm ²	40-70

Thermomechanical Properties		
<i>Refractoriness under Load T05</i>	°C	Min 1670
<i>Reversible Linear thermal expansion (1100 °C)</i>	%	≈ 0.6

The above data are typical of the properties of commercial Standard brick .

The data are subject to reasonable variation and therefore should not be used for Specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties .

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

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