

IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



RESPIN 92

Classification:	Magnesia – Spinel Brick	
Main Raw Material Component:	Dead Burned Magnesia (Large Cristal) – Synthetic Spinel	
Type Of Bond:	Direct Bonded	
Main Applications:	Safety layers in steel melting vessels,Burnin Zone of lime kilns, Good resistance to therma shock, High elasticity modulus, Chrome Ore free Nonhazardous for environment.	

Chemical Composition (Calcined base)					
MgO %	$Al_2O_3\%$	Fe ₂ O _{3 %}	SiO ₂ %		
91 – 94	3.0 - 5.0	0.5 - 1.5	0.5 - 1.5		

Physical Properties					
Bulk density	g/cm ³	> 2.85			
Cold crushing strength	kg/cm ²	400-600			
Apparent porosity	%	< 19			
Modulus of Rupture	kg/cm ²	80-150			

Thermomechanical Properties					
Refractoriness under Load T05	°C	Min 1680			
Reversible Linear thermal expansion (1100 °C)	%	≈ 1.3			

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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