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TDS - White Firebricks

1. Chemical Composition

Na ₂ O	MgO	Al ₂ O ₃	SiO ₂	SO ₃	K ₂ O	CaO	TiO ₂	MnO	Fe ₂ O ₃	NiO	CuO
1,0	0,7	12,1	55,6	1,3	3,7	20,3	0,7	0,3	3,5	0,3	0,5

2. Physical & Mechanical Properties

Apparent Density:	2.14 g/cm ³
Real Density:	2.65 g/cm ³
Open Porosity:	19.32 % p.v.
Water Absorption:	9.02 % p.w.
Cold Crushing Strength	41.87 Mpa
Flexural Strength (M.O.R)	9.5 Mpa

3. Thermal Properties

Refractoriness:	>1150°C
Permanent Linear Change:	<1%
Thermal Conductivity @ 200°C:	1.27 W/m·K
Thermal Conductivity @ 400°C:	1.15 W/m·K
Heat Capacity:	0.75 J/g·K
Thermal Diffusivity @ 200°C	7.9·10 ⁻⁷ m/s
Thermal Diffusivity @ 300°C	7.2·10 ⁻⁷ m/s