



SUPER INSULATING BRICK

AW 500

Effective: January 2013			AW 500
Classification	ISO 2245 : 2006		85-L
Density	ISO 5016 : 1995	Kg/m ³	500
Max. service temperature		°C	900
Cold crushing strength	ISO 8895 : 2006	MPa	1.8
Linear Reheat Shrinkage 12h soak @ Temperature (°C)	ISO 2477 : 2005	%	< 1.0 850
Thermal Conductivity Mean Temperature 200°C 400°C 600°C	ASTM C 182-88 : 2009	W/m ² K	0.13 0.15 0.18
Chemical Analysis SiO ₂ Al ₂ O ₃ TiO ₂ Fe ₂ O ₃ CaO MgO K ₂ O Na ₂ O P ₂ O ₅	XRF	%	67.5 22.5 1.1 2.0 0.9 0.8 2.9 1.4 0.9
Thermal Expansion 20 to 750°C	EN 821-1 : 1995	%	0.4
Refractoriness	ISO 528 : 1983	°C	1400
Refractoriness Under Load, T05 Load: 0.05 MPa	ISO 1893 : 2008	°C	860
Total Porosity	ISO 5017 : 2013	%	80
Dimensional Tolerances (Machined standard squares) Length Width Thickness		mm mm mm	± 1.0 ± 1.0 ± 1.0
CO Resistance 20H @ 500 °C / C Class	ASTM C288-87		A Unaffected

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The above physical and chemical properties of Insulating Brick represent values obtained on standard squares in accordance with accepted test methods and are subject to normal manufacturing variations. This information is supplied as a technical service and may change without notice. Results should not be used for specification purposes, unless agreed with seller.

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