



msb® AB-60

Light insulating perlite bricks

		Typical Value	Standard Deviation
Bulk Density: <i>ISO 5016:1997</i>	..... Kg/m ³	600	19
	..... Lbs/cu.ft.	37	
Max. Service Temperature:	..... °C	1050	
	..... °F	1922	
Cold Crushing Strength: <i>ISO 8895:2006</i>	..... Mpa	4.5	0.65
	..... lbs/sq.in.	653	
Refractoriness under Load: <i>ISO 1893:2008</i> @ 960°C (1760°F) Load 0.05 MPa	..... %	0.5	
Modulus of Rupture (MOR): <i>ASTM C 93-83</i>	..... Mpa	1.7	
	..... lbs/sq.in.		
Linear Reheat Shrinkage: <i>ISO 2477:2005</i> 12 H @ 1000°C (1832°F)	..... %	0.5	0.08
Coefficient of Reversible Thermal Expansion: <i>EN 821-1:1995</i> 20 to 750°C (68 to 1382°F)	..... °K ⁻¹	6.8 x 10 ⁻⁶	
	..... °F ⁻¹		
Total Porosity: <i>ISO 5017:2013</i>	..... %	76	
Apparent Porosity: <i>ISO 5017:2013</i>	..... %	63	
Thermal Conductivity: <i>ASTM C 182-88:2009</i> W/m K	@ 200°C	0.16	
	@ 400°C	0.18	
	@ 600°C	0.20	
	@ 390°F	1.11	
	@ 750°F	1.25	
	@ 1110°F	1.39	
Btu/(sq.ft.h°F/in)			

		Typical Value
Thermal Conductivity: ISO 8894-1/EN 993-14 W/m K	@ 300°C	0.20
	@ 600°C	0.24
	@ 900°C	0.27
Btu/(sq.ft.h°F/in)	@ 570°F.....	1.39
	@ 1110°F.....	1.66
	@ 1650°F.....	1.87

Typical Chemical Analysis: XRF	SiO ₂ (Silicon Dioxide)	%	63.4
	Al ₂ O ₃ (Aluminium Oxide)	%	18.0
	TiO ₂ (Titanium Dioxide)	%	0.6
	Fe ₂ O ₃ (Iron Oxide)	%	3.1
	CaO (Calcium Oxide)	%	7.0
	MgO (Magnesium Oxide)	%	1.6
	K ₂ O (Potassium Oxide)	%	3.6
	Na ₂ O (Sodium Oxide)	%	1.2
	Loss on Ignition	%	1.5

Max. sizes available:	Length	Max. 250 mm
	Width	Max. 250 mm
	Thickness	50 to 100 mm

Dimensional Tolerances:	Length	± 1.0 mm
	Width	± 1.0 mm
	Thickness	± 1.0 mm
	Warpage	± 1.0 mm

HS Tariff Number:	.....	6901 0000
(Harmonized Commodity Description and Coding System)		

Standard Packing:	Double-deck, 4-way pallets, cardboard on 4 sides and top, nylon straps and shrink film.
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The strength of the brick increases at rising temperature (ceramic bonded).

Further details about specials etc. are available upon request.

Physical and thermal values are based upon regular, average test results.

No warranty or guarantee is implied on the data, which are given in good faith.

For special shapes and bricks above average size, slight variations in the above data may occur.

Independent test reports available upon request.

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Producer:
MOSCONI SRL.
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