

msb[®]-575

Light insulating perlite bricks



Bulk Density: <i>ISO 5016:1997</i>	..... Kg/m ³	500
	..... Lbs/cu.ft.	31
Max. Service Temperature:	..... °C	900
	..... °F	1650
Cold Crushing Strength: <i>ISO 8895:2006</i>	..... Mpa	2.5
	..... lbs/sq.in.	363
Hot Crushing Strength: @ 800°C (1472°F)	..... Mpa	4.1
	..... lbs/sq.in.	595
Refractoriness under Load: <i>ISO 1893:2008</i> @ 820°C (1510°F) Load 0.05 MPa	..... %	0.5
Modulus of Rupture (MOR): <i>ASTM C 93-83</i>	..... Mpa	1.6
	..... lbs/sq.in.	232
Hot Modulus of Rupture: <i>ASTM C-5-83</i> @ 800°C (1472°F)	..... Mpa	2.0
	..... lbs/sq.in.	290
Linear Reheat Shrinkage (LRS): <i>ISO 2477:2005</i> 12 H @ 850°C (1560°F)	..... %	< 1.0
Coefficient of Reversible Thermal Expansion: <i>EN 821-1:1995</i> 20 to 750°C (68 to 1382°F)	..... °K ⁻¹	3.4 x 10 ⁻⁶
	..... °F ⁻¹	1.9 x 10 ⁻⁶
Total Porosity: <i>ISO 5017:2013</i> %	80

Thermal Conductivity:		
ASTM C 182-88:2009		
W/m K	@ 200°C.....	0.12
	@ 400°C.....	0.14
	@ 600°C.....	0.16
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	@ 390°F.....	0.83
Btu/(sq.ft.h°F/in)	@ 750°F.....	0.97
	@ 1110°F.....	1.11

Thermal Conductivity:		
Hotwire Method - ISO 8894		
W/m K	@ 300°C.....	0.18
	@ 600°C.....	0.21
	@ 900°C.....	0.29
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	@ 570°F.....	1.25
Btu/(sq.ft.h°F/in)	@ 1110°F.....	1.45
	@ 1650°F.....	2.01

Typical Chemical Analysis:		
XRF		
	SiO ₂ (Silicon Dioxide).....%	65.0
	Al ₂ O ₃ (Aluminium Oxide).....%	15.0
	TiO ₂ (Titanium Dioxide).....%	0.5
	Fe ₂ O ₃ (Iron Oxide).....%	4.0
	CaO (Calcium Oxide).....%	7.0
	MgO (Magnesium Oxide).....%	1.3
	K ₂ O (Potassium Oxide).....%	5.0
	Na ₂ O (Sodium Oxide).....%	1.1
	Loss on Ignition.....%	0.5

Max. Dimensional Tolerances:	Length	mm	± 1
	Width	mm	± 1
	Thickness	mm	± 1

HS Tariff Number: 6902 2091
(Harmonized Commodity Description and Coding System)

Sizes available: All standard and double sizes as well as special shapes.

Standard Packing: Double-deck, 4-way pallets, cardboard on 4 sides and top, nylon straps and shrink film.

The strength of the brick increases at rising temperature (see the front page).
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.

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Producer:
MOSCONI SRL.
An ISO-9001:2015 certified company
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