

msb® AW-500

Light insulating perlite bricks



AW-500

Bulk Density: <i>ISO 5016:1997</i>	 Kg/m ³ Lbs/cu.ft.	500 31
Max. Service Temperature:	 °C °F	900 1650
Cold Crushing Strength: <i>ISO 8895:2006</i>	 Mpa lbs/sq.in.	1.8 261
Hot Crushing Strength: @ 800°C (1472°F)	 Mpa lbs/sq.in.	2.5 363
Refractoriness under Load: <i>ISO 1893:2008</i> @ 857°C (1575°F) Load 0.05 MPa	 %	0.5
Modulus of Rupture (MOR): <i>ASTM C 93-83</i>	 Mpa lbs/sq.in.	1.0 145
Hot Modulus of Rupture: <i>ASTM C-5-83</i> @ 800°C (1472°F)	 Mpa lbs/sq.in.	1.2 174
Linear Reheat Shrinkage: <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 °F ⁻¹	3.4 x 10 ⁻⁶ 1.9 x 10 ⁻⁶
Total Porosity: <i>ISO 5017:2013</i>	 %	80

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Thermal Conductivity:

ASTM C 182-88:2009

W/m K

@ 200°C	0.13
@ 400°C	0.15
@ 600°C	0.18

Btu/(sq.ft.h°F/in)

@ 390°F.....	0.90
@ 750°F.....	1.04
@ 1110°F.....	1.25

Refractoriness:

ISO 528:1983

..... °C	1400
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Typical Chemical Analysis:

XRF

SiO ₂ (Silicon Dioxide)	%	67.5
Al ₂ O ₃ (Aluminium Oxide)	%	22.5
TiO ₂ (Titanium Dioxide)	%	1.1
Fe ₂ O ₃ (Iron Oxide)	%	2.0
CaO (Calcium Oxide)	%	0.9
MgO (Magnesium Oxide)	%	0.8
K ₂ O (Potassium Oxide)	%	2.9
Na ₂ O (Sodium Oxide)	%	1.4
Loss on Ignition	%	0.5

Max. Dimensional Tolerances:

Length.....	mm	± 1
Width.....	mm	± 1
Thickness.....	mm	± 1

HS Tariff Number:

(Harmonized Commodity Description and Coding System)

6902 2091

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.

Independent test reports available upon request.

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Producer:

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An ISO-9001:2015 certified company

Annicco, Cremona

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