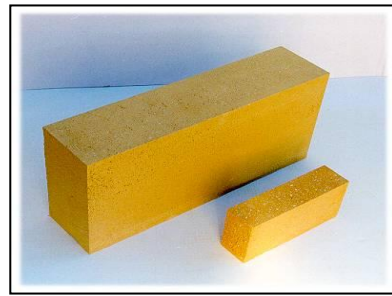


msb[®]-450 & msb[®]-475

Light insulating perlite bricks



simonsen[®]

MOSCONI msb-450 msb-475

Bulk Density: <i>ISO 5016:1997</i>	 Kg/m ³	425	440
	 Lbs/cu.ft.	27	28
Max. Service Temperature:	 °C	900	900
	 °F	1650	1650
Cold Crushing Strength: <i>ISO 8895:2006</i>	 Mpa	1.3	1.6
	 lbs/sq.in.	189	232
Hot Crushing Strength: @ 800°C (1472°F)	 Mpa	1.8	1.8
	 lbs/sq.in.	261	261
Refractoriness under Load: <i>ISO 1893:2008</i> @ 820°C (1510°F) Load 0.05 MPa	 %	0.5	0.5
Modulus of Rupture (MOR): <i>ASTM C 93-83</i>	 Mpa	0.7	0.7
	 lbs/sq.in.	102	102
Hot Modulus of Rupture: <i>ASTM C-5-83</i> @ 800°C (1472°F)	 Mpa	0.9	1.2
	 lbs/sq.in.	131	174
Linear Reheat Shrinkage (LRS): <i>ISO 2477:2005</i> 12 H @ 850°C (1560°F)	 %	< 1.0	< 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	3.4 x 10 ⁻⁶
	 °F ⁻¹	1.9 x 10 ⁻⁶	1.9 x 10 ⁻⁶
Total Porosity: <i>ISO 5017:2013</i>	 %	80	80

MOSCONI

msb-450 msb-475

Thermal Conductivity:
ASTM C 182-88:2009

W/m K	@ 200°C.....	0.10	0.11
	@ 400°C.....	0.12	0.13
	@ 600°C.....	0.14	0.15
Btu/(sq.ft.h°F/in)	@ 390°F.....	0.69	0.76
	@ 750°F.....	0.83	0.90
	@ 1110°F.....	0.97	1.04

Thermal Conductivity:
Hotwire Method - ISO 8894

W/m K	@ 300°C.....	0.15	0.17
	@ 600°C.....	0.18	0.18
	@ 900°C.....	0.25	0.26
Btu/(sq.ft.h°F/in)	@ 570°F.....	1.04	1.18
	@ 1110°F.....	1.25	1.25
	@ 1650°F.....	1.73	1.80

Typical Chemical Analysis:
XRF

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

Max. sizes available:

Length/Width:	mm	250 to max. 500
Thickness	mm	76, 100, 114, 124 & 152

Max. Dimensional Tolerances:

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

HS Tariff Number:

(Harmonized Commodity Description and Coding System)

6902 2091

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.

simonsen a/s

 Møgelvangs Plads 7
 DK-7900 Nykøbing Mors
 DANMARK

 Tel: Int. +45 9669 1300
 simonsen@simonsen.eu
 WebSite: www.simonsen.eu

 Producer:
 MOSCONI SRL.
An ISO-9001:2015 certified company
 Annicco, Cremona
 ITALY
