



## SUPER INSULATING BRICKS

NEW

		ISOLMOS 450	AW 500	AB-45	AB-50	AB-55	AB-60	AB-70	M-21
<b>Classification</b> ISO 2245 : 2006		85-L	85-L	90-L	90-L	95-L	100-L	100-L	110-L
<b>Density</b> ISO 5016 : 1997	Kg/m <sup>3</sup>	425	500	450	500	550	600	700	550
<b>Max service temperature</b>	°C	900	900	950	950	1000	1050	1050	1150
<b>Cold crushing strength</b> ISO 8895 : 2006	MPa	1.3	1.8	1.8	2.5	3.5	4.5	6.0	1.8
<b>Permanent Linear Change</b> ISO 2477:2005 12h @Temp.	% °C	> -1.0 850	> -1.0 850	> -1.0 900	-0.5 900	-0.5 950	-0.5 1000	-0.5 1000	-0.5 1100
<b>Thermal Conductivity</b> ASTM C 182-88:2009									
Mean T. 200°C	W/m°C	0.10	0.13	0.12	0.13	0.14	0.16	0.18	0.13
Mean T. 400°C		0.12	0.15	0.14	0.15	0.16	0.18	0.20	0.15
Mean T. 600°C		0.14	0.18	0.16	0.17	0.18	0.20	0.22	0.19
Mean T. 800°C						0.21	0.23	0.25	0.24
<b>Chemical Analysis</b> XRF									
SiO <sub>2</sub>	%	65.0	67.5	64.5	64.5	64.0	63.4	62.7	50.0
Al <sub>2</sub> O <sub>3</sub>		15.0	22.5	17.3	17.5	17.6	18.0	18.5	18.5
TiO <sub>2</sub>		0.5	1.1	0.6	0.6	0.6	0.6	0.6	0.6
Fe <sub>2</sub> O <sub>3</sub>		3.5	2.0	3.3	3.1	3.5	3.5	3.5	2.4
CaO		7.5	0.9	5.5	5.9	5.9	6.6	6.8	8.0
MgO		1.3	0.8	1.6	1.6	1.6	1.6	1.6	1.0
K <sub>2</sub> O		5.0	2.9	3.8	3.6	3.6	3.6	3.6	2.8
Na <sub>2</sub> O		1.1	1.4	1.9	1.7	1.7	1.2	1.2	1.2
P <sub>2</sub> O <sub>5</sub>		0.5	0.9	tr	tr	tr	tr	tr	tr
<b>Thermal Expansion 20 to 750 °C</b> EN 821-1 : 1995	%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
<b>Refractoriness</b> ISO 528 : 1983	°C	1140	1400	1200	1200	1200	1200	1200	1320
<b>Refractoriness Under Load, T05</b> Load: 0.05 MPa ISO 1893 : 2008	°C	810	860	890	890	960	960	990	1060
<b>Total Porosity</b> ISO 5016 : 1997	%	82	80	82	80	78	76	72	80
<b>Dimensional Tolerances</b> (Standard squares)									
Machined (all dimensions)	mm	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Trimmed (length)		± 2.0	± 2.0	± 2.0	± 2.0	± 2.0	± 2.0		± 2.0
(width)		± 2.0	± 2.0	± 2.0	± 2.0	± 2.0	± 2.0		± 2.0
(thickness)		± 1.5	± 1.5	± 1.5	± 1.5	± 1.5	± 1.5		± 1.5
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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.