



SUPER INSULATING BRICKS

NEW

		ISOLMOS 450	AW 500	AB-45	AB-50	AB-55	AB-60	AB-70	M-21	M-23	
Classification ISO 2245 : 2006		85-L	85-L	90-L	90-L	95-L	100-L	100-L	110-L	130-L	
Density ISO 5016 : 1997	Kg/m ³	425	500	450	500	550	600	700	550	520	
Max service temperature	°C	900	900	950	950	1000	1050	1050	1150	1300	
Cold crushing strength ISO 8895 : 2006	MPa	1.3	1.8	1.8	2.5	3.5	4.5	6.0	1.8	1.5	
Permanent Linear Change ISO 2477:2005 12h @Temp.	%	> -1.0	> -1.0	> -1.0	-0.5	-0.5	-0.5	-0.5	-0.5	-0.2	
	°C	850	850	900	900	950	1000	1000	1100	1250	
Thermal Conductivity 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	0.14
	Mean T. 400°C		0.12	0.15	0.14	0.15	0.16	0.18	0.20	0.15	0.17
	Mean T. 600°C		0.14	0.18	0.16	0.17	0.18	0.20	0.22	0.19	0.20
	Mean T. 800°C						0.21	0.23	0.25	0.24	0.23
									0.30	0.27	
Chemical Analysis XRF											
	SiO ₂	%	65.0	67.5	64.5	64.5	64.0	63.4	62.7	50.0	50.7
	Al ₂ O ₃		15.0	22.5	17.3	17.5	17.6	18.0	18.5	33.5	33.2
	TiO ₂		0.5	1.1	0.6	0.6	0.6	0.6	0.6	0.5	0.2
	Fe ₂ O ₃		3.5	2.0	3.3	3.1	3.5	3.5	3.5	2.4	1.0
	CaO		7.5	0.9	5.5	5.9	5.9	6.6	6.8	8.0	11.2
	MgO		1.3	0.8	1.6	1.6	1.6	1.6	1.6	1.0	0.4
	K ₂ O		5.0	2.9	3.8	3.6	3.6	3.6	3.6	2.8	2.6
	Na ₂ O		1.1	1.4	1.9	1.7	1.7	1.2	1.2	1.2	0.5
P ₂ O ₅		0.5	0.9	tr	tr	tr	tr	tr	tr	tr	
Thermal Expansion 20 to 750 °C EN 821-1 : 1995	%	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.59	
Refractoriness ISO 528 : 1983	°C	1140	1400	1200	1200	1200	1200	1200	1320	1400	
Refractoriness Under Load, T05 Load: 0.05 MPa ISO 1893 : 2008	°C	810	860	890	890	960	960	990	1060	1225	
Total Porosity ISO 5016 : 1997	%	82	80	82	80	78	76	72	80	81	
Dimensional Tolerances (Standard squares)											
	Machined (all dimensions)	mm	± 1.0	± 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		
Color		reddish	cream	reddish	reddish	reddish	reddish	reddish	reddish	white	
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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.