

MATERIAL DATA SHEET



Data sheet No.
ISOCAST BI -11/1,1 – en-us

Date
2016-01-28

Grade	ISOCAST BI -11/1,1
Product group	INSULATING REFRACTORY CASTABLES
Application	<i>insulation lining of heating units < 1100 °C</i>
Remarks	-

Chemical analysis	Guaranteed value	Typical value	Unit	Standard
Al_2O_3	-	19,0	%	PN EN ISO1927-3
Fe_2O_3	-	5,0	%	

Physical properties	Guaranteed value	Typical value	Unit	Standard
Measured on samples prepared according to	-	-	-	PN EN ISO1927-5
Cold crushing strength				PN EN ISO1927-6
110°C	9,0	9,6	N/mm ²	
1100°C	-	3,5	N/mm ²	
Bulk density				PN EN ISO1927-6
110°C	-	1200	kg/m ³	
1100°C	1160	1145	kg/m ³	

Additional information	Guaranteed value	Typical value	Unit	Standard
Temperature limit of application (max.)	-	1100	°C	-
Permanent linear change (1100°C/12h)	-	-1,0	%	PN EN 1094-6
Thermal conductivity				PN EN 993-15
400°C	-	0,30		
600°C	-	0,34	W/mK	
800°C	-	0,36		
Grain size	-	0-8	mm	PN-ISO 2591-1
Mixing water	-	28-35	l/100 kg	-
Material demand	-	1150-1200	kg/m ³	-
Shelf life	-	3	month	-

Typical values represent the average of results from the current production. Guaranteed values correspond to mean value due to p. 5.5 of ISO 5022 standard. All values are valid for samples prepared under controlled conditions due to EN ISO 1927-5. Due to p.3.2.2 of ISO 5022 standard the properties which are the criteria of compliance assessment are limited to guaranteed physical properties. Properties may be subjected to fluctuations typical of the manufacturing process. PCO reserves the right to modify technical data sheet at any time without prior notice.

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