

MATERIAL DATA SHEET



Data sheet No.
NORMATON BS/000

Date
2017-05-15

Grade	<i>NORMATON BS</i>
Product group	<i>FIRECLAY BRICKS</i>
Application	<i>Structural lining of heating units</i>
Remarks	

Chemical analysis	Guaranteed value	Typical value	Unit	Standard
Al_2O_3	32,00	35,00	%	PN EN ISO 12677 PN-85/H-04154
Fe_2O_3	3,00	2,50	%	

Physical properties	Guaranteed value	Typical value	Unit	Standard
Bulk density	1,95	2,00	g/cm ³	PN EN 993-1
Apparent porosity	23	20	%	PN EN 993-1
Cold crushing strength	20	25	N/mm ²	PN EN 993-5

Additional information	Guaranteed value	Typical value	Unit	Standard
Refractoriness	-	169/31	sP/SC	PN EN 993-12
Refractoriness under the load $t_{0,6}$	-	1320	°C	PN-69/H-04178
Thermal conductivity				PN EN 993-15
	800°C	-	1,30	W/mK
	1100°C	-	1,40	W/mK
Linear thermal expansion				PN EN 993-19
	800°C	-	0,40	%
	1100°C	-	0,60	%
Permanent Linear Change				PN EN 993-10
	1350°C/2h	-	+/- 0,2	%
Thermal shock resistance at 950°C (water changes)	-	8	n	DIN 51068-1

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 mechanically-pressed, standard bricks of length ≤250mm, width ≤124mm and thickness 50-76mm (NF1, NF2) and cannot be unconditionally transferred to other shapes (see corresponding sheet of Applicable Tolerances for Finished Products). Due to p.3.2.2 of ISO 5022 standard the properties which are the criteria of compliance assessment are limited to chemical composition and 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.

Polska Ceramika Ogniotrwała „ŻARÓW” S.A.

Ul. Hutnicza, 58-130 ŻARÓW (POLAND) tel: +48 74 856 26 00 fax.: (+48 74) 858 04 65 e-mail: pco@pco.pl

All rights reserved. The data included on the present sheet constitute trade secrets of PCO Żarów S.A.

Copying, disclosure or transfer of data to third parties without prior written consent of PCO Żarów S.A. is strictly forbidden.

