



TECHNICAL DATA

ALKON® CAST HYMOR 80 AL

PRODUCT TYPE	: Alumina product
	Medium cement castable
Maximum recommended temperature	: 1420°C
Main component	: Corundum
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 6 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 3.05 T/m³
Drinking water required for mixing on site	: 5.2 / 6.0 litres per 100 kg of dry material
Guidelines	: Installation Nr 6

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al ₂ O ₃	EN ISO 1927-3	84.0	%
BaO	EN ISO 1927-3	6.0	%
CaO	EN ISO 1927-3	4.4	%
SiO ₂	EN ISO 1927-3	3.1	%
Fe ₂ O ₃	EN ISO 1927-3	0.1	%
PHYSICAL PROPERTIES			
<u>Measured on samples prepared according to</u>	EN ISO 1927-5	-	-
<u>Bulk density</u>			
after drying at 110 °C	EN ISO 1927-6	3.13	g/cm ³
after firing at 800 °C	EN ISO 1927-6	3.02	g/cm ³
<u>Open porosity</u>			
after firing at 800 °C	EN ISO 1927-6	20	%
<u>Cold crushing strength</u>			
after drying at 110 °C	EN ISO 1927-6	140	MPa
after firing at 800 °C	EN ISO 1927-6	130	MPa
after firing at 1200 °C	EN ISO 1927-6	110	MPa
after firing at 1400 °C	EN ISO 1927-6	80	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN ISO 1927-6	-0.2	%
after firing at 1200 °C	EN ISO 1927-6	-0.2	%
after firing at 1400 °C	EN ISO 1927-6	+2.1	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN ISO 1927-8	2.93	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	2.76	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	2.61	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.75	%

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