

DIDURIT B83-6

General information	
Classification	Refractory concrete (LCC) DIN EN ISO 1927-1
Main raw material components	Bauxite
Bonding type	Hydraulic
Additional Information	high abrasion resistance, high resistance to thermal shocks
Grain Size	0-6 mm
VDEh-Code	001803802770
Working method	Vibrating
Amount of Material without loss	2,85 t/m ³
Amount of liquid addition	4,7-5,7 l/100 kg
Liquid addition	Water
Storage Limit	8 months
Temp. limit for application	1.700 °C

Chemical analysis					
Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	K ₂ O	CaO
82,5%	12,0%	1,2%	2,6%	0,1%	1,1%
Determination on fired substance (1025 °C / 1877 °F) acc. to ISO 12677					

Physical properties				
Bulk Density	110 °C / 230 °F	2,85	[g/cm ³]	ISO 1927-6
	1000 °C / 1832 °F	2,80	[g/cm ³]	ISO 1927-6
Cold Crushing Strength	110 °C / 230 °F	70,0	[N/mm ²]	ISO 1927-6
	1000 °C / 1832 °F	140,0	[N/mm ²]	ISO 1927-6
	1500 °C / 2732 °F	120,0	[N/mm ²]	ISO 1927-6
Modulus of Rupture (110 °C / 230 °F)		8,0	[N/mm ²]	ISO 1927-6
Thermal Expansion (1000 °C / 1832 °F)		0,60	[%]	EN 993-19
PLC (1000 °C / 1832 °F)		-0,10	[%]	ISO 1927-6

The indicated values are standard values, i.e. values taken over a longer representative period of time according to either valid test standards or internal test methods. They may not be regarded as committed specifications and therefore not as guaranteed properties. We reserve the right to further technical developments and new editions of technical product information.

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Abrasion		5,00	[cm ³]	ASTM C704 calibrated
Thermal Conductivity	400 °C / 752 °F	1,90	[W/mK]	Dr. Klasse
	600 °C / 1112 °F	1,80	[W/mK]	Dr. Klasse
	800 °C / 1472 °F	1,80	[W/mK]	Dr. Klasse
	1000 °C / 1832 °F	2,00	[W/mK]	Dr. Klasse
	1200 °C / 2192 °F	2,10	[W/mK]	Dr. Klasse

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