

## DIDURIT F50-6

General information	
Classification	Refractory concrete(LCC) EN 1402-1
Main raw material components	Fireclay
Bonding type	Hydraulic
Additional Information	high abrasion resistance, increased alkali-resistance
Grain Size	0-6 mm
VDEh-Code	001806452350
Working method	Vibrating
Amount of Material without loss	2,35 t/m <sup>3</sup>
Liquid addition	Water
Amount of liquid addition	5,5-6,5 l/100 kg
Storage Limit	8 months
Temp. limit for application	1.500 °C

Chemical analysis					
Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	Na <sub>2</sub> O	CaO
51.0%	44.0%	1.0%	1.5%	0.1%	1.6%
Determination on fired substance (1025 °C / 1877 °F) acc. to EN ISO 12677					

Physical properties				
Bulk Density	110 °C / 230 °F	2,44	[g/cm <sup>3</sup> ]	EN 1402-6
	1000 °C / 1832 °F	2,38	[g/cm <sup>3</sup> ]	EN 1402-6
Cold Crushing Strength	110 °C / 230 °F	65,0	[N/mm <sup>2</sup> ]	EN 1402-6
	1000 °C / 1832 °F	110,0	[N/mm <sup>2</sup> ]	EN 1402-6
	1300 °C / 2372 °F	110,0	[N/mm <sup>2</sup> ]	EN 1402-6
Thermal Expansion (1000 °C / 1832 °F)		0,55	[%]	EN 993-19
PLC (1400 °C / 2552 °F)		-0,30	[%]	EN 1402-6
Abrasion		9,00	[cm <sup>3</sup> ]	ASTM C704
Thermal Conductivity	400 °C / 752 °F	1,50	[W/mK]	DR. KLASSE
	800 °C / 1472 °F	1,60	[W/mK]	DR. KLASSE
	1200 °C / 2192 °F	1,90	[W/mK]	DR. KLASSE

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.