

MAXIAL 210 M

General information				
Classification	Fireclay product type FC40 ISO 10081-1			
Main raw material components	Fireclay			
Bonding type	Ceramic			

Chemical analysis							
Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	TiO ₂	CaO	K ₂ O		
46.0%	1.6%	48.0%	1.7%	0.4%	0.9%		
Na ₂ O	MgO						
0.5%	0.5%						
Determination on fired substance (1025 °C / 1877 °F) acc. to EN ISO 12677							

Physical properties			
Bulk Density	2,28	[g/cm ³]	EN 993-1
Apparent Porosity	18,0	[vol%]	EN 993-1
Cold Crushing Strength	50,0	[N/mm ²]	EN 993-5
Modulus of Rupture	9,0	[N/mm ²]	EN 993-6
Hot Modulus of Rupt. (1250 °C / 2282 °F)	3,5	[N/mm ²]	EN 993-7
PLC (1400 °C / 2552 °F)	-0,50	[%]	EN 993-10
Refractoriness under Load T ₀	1100	[°C]	ISO 1893
Refractoriness under Load T _{0,5}	1300	[°C]	ISO 1893
- with load	0,200	[N/mm ²]	
Pyrometric cone equivalent (cone no.: 29)	1.659	[°C]	ASTM C24-01
Hot load test (25 psi)			ASTM C16
- at test temperatures	2.370	[°F]	
- schedules	1		
- holding time	1,5	[h]	
- change in length	-0,90	[%]	

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.

Revision: 04. MAY. 2018



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Res. to Thermal Shocks Water		30	[cycles]	DIN 51068-1
Thermal Conductivity	500 °C / 932 °F	1,20	[W/mK]	Dr. Klasse
	750 °C / 1382 °F	1,30	[W/mK]	Dr. Klasse
	1000 °C / 1832 °F	1,40	[W/mK]	Dr. Klasse
CO-Resistance (class)		Α		ASTM C288
Modulus of Deformation		11.000	[N/mm ²]	

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