

# WERKSTOFFZENTRUM

## RHEINBACH GmbH

<b>Customer:</b> Friatec AG Division: Fridurit G. Sindelar, Labortechnik Steinzeugstr. 50 68229 Mannheim-Friedrichsfeld	<b>Testing Laboratory:</b> Werkstoffzentrum Rheinbach GmbH Lise-Meitner-Straße 1 53359 Rheinbach <b>Order Number: 030498</b> <b>Order Receipt: 15.12.03</b>
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### Testing Certificate

(Characterization of glazed chemical-technical stoneware)

Test	Norm	Unit	Result	Standard Deviation
Raw Density	EN 993-1	g/cm <sup>3</sup>	2,37	0,00
Cold Compression Strength	EN 993-5	MPa	159	25
Bending Strength	EN 993-6	MPa	41,3	0,6
Static Modulus of Elasticity	EN 993-6	GPa	39,0	1,3
Thermal Conductivity	EN 821-2	W/mK	1,57	-
Thermal Expansion	DIN 51045-2	10 <sup>-6</sup> K <sup>-1</sup>	$\alpha$ (25-400): 5,6 $\alpha$ (25-800): 5,9 $\alpha$ (25-1200): 6,3	
Wear	DIN 52108	cm <sup>3</sup> /50cm <sup>2</sup>	8,5	0,3
Abrasive Hardness	DIN 101	-	6 - 7	-
Resistance to Stains	EN ISO 10545-14	Category 5		
Crazing Resistance	EN ISO 10545-11	No Crazing		
Chemical Durability  G: Glazed Tiles and Plates L: Acid respectively Base of low concentrations H: Acid respectively Base of high concentrations A: Classification, no visible effect	EN ISO 10545-13	NH <sub>4</sub> Cl	GA	
		NaClO	GA	
		HCl 3 Vol-%	GLA	
		HCl 18 Vol-%	GHA	
		KOH 30 g/l	GLA	
		KOH 100 g/l	GHA	
		C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	GLA	
		C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	GHA	

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