



## Technical Data

**Trade Name: ISO OPTIMAL**

### PHYSICAL PROPERTIES

Density (DIN 51065)	2,2	-	2,4	(g/cm <sup>3</sup> )
Open Porosity (DIN 51056)	6,0	-	12,0	(%)
Cold Bending strength (DIN EN 993-6)	12,0	-	18,0	(N/mm <sup>2</sup> )
LOI (1000 °C, 2 h)	32,0	-	36,0	(%)
Coefficient of thermal expansion (DIN 51909)	3,5	-	4,0	(·10 <sup>-6</sup> ·K <sup>-1</sup> )
Spec. Electric resistancy (DIN 51911)	30,0	-	90,0	(μΩm)
Thermal Conductivity (DIN 51908) at RT	18,0	-	26,0	(W/K·m)
Laser Flash	65,0	-	80,0	

### CHEMICAL ANALYSIS (RFA)

Aluminiumoxid (Al <sub>2</sub> O <sub>3</sub> )	3,0	-	5,0	(%)
Silizium (Si)	3,0	-	5,0	(%)
Siliziumkarbid (SiC)	42,0	-	47,0	(%)
Siliziumdioxid (SiO <sub>2</sub> )	3,0	-	5,0	(%)
Carbon (C frei)	32,0	-	36,0	(%)
Boroxid B <sub>2</sub> O <sub>3</sub>	1	-	2	(%)

The declared properties have been determined using test pieces subjected to standard test methods. They are subjected to the tolerances dependent on the production in refractory ceramics and do not represent a warranty for the material characteristics. The application of these values to other shapes and other dimensions is only partially valid.

Vesuvius GmbH plant Großalmerode is certificated DIN EN ISO 9001:2008 and ISO 14001:2004

Großalmerode, 02.05.2012