

# Works Certificate

acc. to EN 10204 - 2.2

Product : ISO-Universal  
 Art.: 51

## PHYSICAL DATA

Bulk Density (DIN 51065)	2,1	-	2,15	(g/cm <sup>3</sup> )
Porosity (DIN 51056)	9,0	-	11,0	(%)
Modulus of Rupture (DIN 51902)	9,0	-	11,0	(N/mm <sup>2</sup> )
Glowing Loss (1000 °C, 2 h)	36,0	-	40,0	(%)
Thermal Expansion Coefficient (DIN 51909)	5,2	-	5,7	(·10 <sup>-6</sup> ·K <sup>-1</sup> )
Special Electrical Resistance (DIN 51911)	500	-	700	(µΩm)
Thermal Conductivity (DIN 51908)	25,0	-	30,0	(W/K·m)

## CHEMICAL ANALYSIS (RFA)

Aluminium Oxide (Al <sub>2</sub> O <sub>3</sub> )	10,0	-	12,0	(%)
Silicon Metal (Si)	4,0	-	6,0	(%)
Silicon Carbide (SiC)	18,0	-	22,0	(%)
Silicon Dioxide (SiO <sub>2</sub> )	16,0	-	20,0	(%)
Carbon (free C)	36,0	-	40,0	(%)

Since we are using natural raw materials for the production of our crucibles, they contain the chemical compounds Fe<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> as well as alkali and earthalkali oxides, each up to approx. 1 %.

We are certified acc. to EN ISO 9001 and 14001

Großalmrode, 08.08.2005

100%

becker + piscantor  
**VESUVIUS**



KF 59284126