

AC 19

ZIRCONIA BACKING MIX -30+50

Typical Chemical Analysis

	%
Al ₂ O ₃	72.09
SiO ₂	25.66
TiO ₂	0.17
Fe ₂ O ₃	0.19
CaO/MgO	0.44
Na ₂ O/K ₂ O	0.53

Physical Properties

Apparent Porosity (%)	22
Bulk Density (kg/m ³)	2400

Thermal Properties

Specific heat (J/kgK)	1000	
Thermal conductivity (W/mK)	1.6	(1300 °C)
Coefficient of thermal expansion (K ⁻¹)	4.5 x 10 ⁻⁶	(25°C - 1400°C)
Thermal Shock Resistance	Very Good	

General Properties

Specific Resistance (Ωcm)	5 x 10 ⁵ - 3 x 10 ³	(800°C - 1400°C)
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