



Alumina Crucibles and Substrates

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Technical Data Sheet: Zirconia – CaO (5.5%) Stabilised

Description

A fully dense, fine grained zirconia stabilised with 5.5wt% CaO. This zirconia has a fully stabilised microstructure at all temperatures. It has good strength, excellent dimensional stability and is electrically conductive at higher temperatures.

Physical Data

Colour	White
Apparent Porosity	<0.1%
Density	5.37 g/cm ³
Max service temperature	>2000°C

Compositional Data

Oxide	Composition
Zirconia and Hafnia (ZrO ₂ + HfO ₂)	>93.5%
Lime (CaO)	5.5%
Magnesium Oxide (MgO)	<0.1%
Silica (SiO ₂)	<0.2%
Alumina (Al ₂ O ₃)	<0.03%
Iron oxide (Fe ₂ O ₃)	<0.1%
Titanium Oxide (TiO ₂)	<0.1%
Uranium / Thorium oxide (U ₃ O ₈ + ThO ₂)	<0.05%

Please note: All data is generated from test pieces and should be considered as 'typical' data.