



## TECHNICAL DATA SHEET

Smoktite is an insulating ceramic castable refractory designed and manufactured to retrofit fireplace smoke chambers to meet the requirements of NFPA 211 Chapters 11.2.1.9 and 11.1.1.13.

It meets or exceeds the temperature requirements of Table 5.2.2.1 for Flue Gas Temperatures from 538°C to >982°C, from "Residential" through and including "Masonry High-Heat Types" and is 100% impermeable to gasses in its fired form.

Smoktite is produced to BS4207 and tested by The Ceramics Institute / Ceram Research (NAMAS) to BS 1902.

### Test Results

Applicable testing standards:

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<b>Apparent Porosity:</b> EN1402/ASTM-830 Apparent Porosity	<b>54.85%</b>
<b>Bulk Density:</b> EN1402 /ASTM-830 Bulk Density	<b>1.2g/cm<sup>3</sup></b>
<b>Compressive Strength:</b> EN 993-5 / ASTM-C-133 Compressive Strength	<b>9.0 MPa</b>
<b>Thermal Conductivity:</b> BS 1902 Section 5.5 Thermal Conductivity	<b>.44 W/m.K</b>
<b>Heat Flow:</b> BS 1902 Section 5.5 Heat Flow	<b>4.920 W</b>
<b>Refractoriness (PCE):</b> ASTM C-24 Refractoriness	<b>1255°C</b>
<b>Permanent Linear Change (PLC) @ 1000°:</b> EN1402-6/ASTM C-313 Permanent Linear Change	<b>-1.27%</b>

When installed to manufacturer's instructions, ½ inch application of Smoktite gives the equivalent thermal protection of a full course of high alumina refractory brick i.e. firebrick.