ISOCAL-C

Technical specification

	Product	C 900	C 1000	C 1100	C 1100M
Classification temperature	°C	900	1000	1100	1100
Density ±10%	kg/m³	285	280	290	260
Porosity	%	approx. 90	approx. 90	approx. 90	approx. 90
Thermal conductivity (at a medium temperature W/mK)	400 °C 600 °C 800 °C	0.10 0.12 0.15	0.11 0.12 0.15	0.11 0.12 0.15	0.08 0.10 0.12
Compressive strength for 10% compression (EN 1095-5)	MPa	1.7	1.5	1.5	1.2
Shrinkage after 12h glowing (EN 1095-6)	% °C	1.2 900	1.3 1000	1.3 1050	1.2 1000
Bending strength (ISO 8143)	MPa	1.0	1.0	1.0	1.0
Specific heat capacity		0.8 – 1.2	0.8 – 1.2	0.8 – 1.2	0.8 – 1.2
Formats (boards)	Length (mm) Width (mm) Thickness (mm)	1000 500 20 – 100	1000 500 20 – 100	1000 500 20 – 100	1000 500 20 – 100
Colour		white	white	white	white

ISOCAL-C is a microporous pressure resistant high temperature thermal insulating board constituting a new generation of calcium silicate boards. Special micro-cells restrict the free passage of radiant heat.

Applications: Pressure proof rear thermal insulation for constructing furnaces, for the petrochemical industry, for the steel and power plant industries.

(1) We are able to supply special formats and special thicknesses on request. We will be pleased to manufacture stampings, milled parts or cuttings according to your drawings.
(2) The classification temperature is not to be equated with the maximum application temperature, in particular when physical conditions such as tensile or pressure loads are involved. For applications as high-temperature insulation, lower temperatures must always be applied. In these cases, our Engineering department will offer assistance and support.
(3) Heat transmission calculations for this material can be requested from our Engineering department.

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11.2019