

# ISOCAL-C

## Technical specification

	Product	C 900	C 1000	C 1100	C 1100M
Classification temperature	°C	900	1000	1100	1100
Density ±10%	kg/m <sup>3</sup>	285	280	290	260
Porosity	%	approx. 90	approx. 90	approx. 90	approx. 90
Thermal conductivity (at a medium temperature W/mK)	400 °C	0.10	0.11	0.11	0.08
	600 °C	0.12	0.12	0.12	0.10
	800 °C	0.15	0.15	0.15	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)	%	1.2	1.3	1.3	1.2
	°C	900	1000	1050	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)	1000	1000	1000	1000
	Width (mm)	500	500	500	500
	Thickness (mm)	20 – 100	20 – 100	20 – 100	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.

**The information contained in this publication serves only for purposes of clarification, and is not intended to form the basis of contractual obligations.**

Further information and advice on specific details of the products described can be obtained in writing from Techno-Physik Eng. GmbH (Germany). The TechnoPhysik Group is consistently running product development programmes and reserves the right to modify product specifications at any time without notice. The customer/user is thus always obliged to ensure that the material form Techno-Physik Eng. GmbH is suitable for his specific purposes. The specified values are average figures determined from current production and are intended only for information. Warranty claims cannot be derived from these figures. We recommend to test the material for your application.

Sales via any company in the TechnoPhysik Group are subject to the General Terms and Conditions of Sale of the respective company, a copy of which is available on request.