

TECHNICAL DATA SHEET

PRODUCT DETAILS

SUPERCCEL® XL 120 is a high performance rigid closed cell thermoset designed for pipework, especially those requiring non-fibrous material. It is manufactured in blocks/billets, with a rectangular cross-section and a thickness not significantly smaller than the width. It can be cut by specific machinery to all dimensions and forms necessary for optimal insulation, such as slabs, jacketing and curved or spherical segments.

THERMAL CONDUCTIVITY λ_D

0,042 W/mK

SUGGESTED APPLICATION

Insulation for industrial and commercial pipework

CHARACTERISTICS AND PERFORMANCES EN 14314:2010

PROPERTIES	NORMS	UNITS	VALUES
Nominal Dry Density	EN ISO 845	kg/m ³	120 +/- 5
Thermal Conductivity	EN 12667 at T _m : 10°C Initial Aged	W/mK W/mK	0,042 0,044
Closed Cell Content	EN ISO 4590	%	≥ 95
Operating Temperature Limits	Upper Limit Lower Limit	°C °C	+ 120 - 180
Compressive Strength	EN 826	kPa	≥ 800
Linear Dimensional Stability	EN 826	%	
	Thickness: 48 hrs at (120 ± 2) °C		≤ 3
	Length & Width: 48 hrs at (120 ± 2) °C		≤ 3
Water absorption by immersion	EN 1609	Kg/m ²	≤ 1
Water vapor permeability and transmission	EN 12086	μ	30
Specific heat capacity		J/Kg K	1750
Reaction to fire	EN 13501-1	C s ₁ d ₀	
Fire propagation	BS 476-6	Index (I) not exceeding 12* Sub-index (i ₁) not exceeding 6*	
Flame spread	BS 476-7	Class 1*	
Surface burning characteristics	ASTM E84	Flame spread Index (2,5 inch) ≤ 25 Smoke Development Index (2,5 inch) ≤ 50	

*the results of the tests to BS 476-6:1989+A1: 2009 and BS 476-7: 1997, demonstrate that the product, as tested, **complies with the requirements for Class 0**, as defined in paragraph A13(b) of Approved Document B, 'Fire Safety', to the Building Regulations 2000

TOLERANCES AND NOTES

Notes	Stability to the temperature	SUPERCCEL [®] PIPING performs well in both extremely hot and extremely cold environments. With a temperature range of - 180°C e + 120°C.
	Aspect	Any possible little areas of imperfection in the foam are originated by the production process and don't prejudice in any way the physical-mechanical properties of the panels.

MORE INFORMATION

More information	<p>For more Information not present in this sheet, please contact the technical office of Resine Isolanti O. Diena S.r.l. Viale Zanotti, 86 - 27027 Gropello Cairoli (PV) - IT - T. + 39 0382.81.59.79 info@resineisolanti.com</p>
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