

产品参数表

CRIOFOAM® Crio C

Crio C 系列结构泡沫

产品特性/Product properties

- | | |
|---------|-----------------------------------|
| • 机械性能好 | • Very high mechanical properties |
| • 低导热系数 | • Low thermal conductivity |
| • 密度范围广 | • Available in wide density range |
| • 耐高温 | • Higher temperature resistance |
| • 高稳定性 | • High dimensional stability |
| • 阻燃性能好 | • High fire reaction |



CRIO C 已被设计运用于低温应用，用于在极低的温度（约- 150° C）下对含有液体或液化天然气的管道或储罐进行绝缘。这些泡沫是聚异氰酸酯泡沫，主要特点是高机械性能、低导热系数、在广泛的温度范围内的高稳定性和高阻燃性能。

Crio C has been designed in cryogenic applications for insulation of pipes or tanks containing liquids or LNG at very low temperatures (around - 150 °C).

These foams are polyisocyanurate foams mainly characterized by high mechanical properties, low thermal conductivity, high stability in a wide range of temperatures and high fire reaction.

应用领域/Applications

- | | |
|-----------------------------|--|
| • 公路和轨道交通：
冷藏、运输等 | • Road and Rail:
Thermal insulation, transportation, ... |
| • 船舶：
船体、舱壁等 | • Marine:
Hulls, bulkheads, ... |
| • 工业：
工装、罐、管道、盖板等 | • Industries:
Tooling, tanks, ductwork, covers, ... |

应用工艺/ Applicable Processes

- | | |
|---------------|-------------------------------|
| • 接触成型（手糊/喷射） | • Contact Forming（Hand/Spray） |
| • RTM 及真空导流 | • RTM and Vacuum Infusion |
| • 粘结 | • Adhesive Bonding |
| • 热成型 | • Thermoforming |

典型性能/Typical Performance		单位/unit	C80	C160	C250	C320
名义密度 Nominal Density	ASTM - D 1622	Kg/m ³	80	160	250	320
压缩强度 Compressive Strength	ASTM - D 1621	MPa	1	2.5	4.5	8.5
弯曲强度 Compressive Modulus	ASTM - D 1621-B	MPa	1.2	3.0	5.0	9.0
阻燃性能 Fire Reaction	ISO 3582	---	mm < 30 sec < 60	mm < 30 sec < 60	mm < 30 sec < 60	mm < 30 sec < 60
	DIN-4102-1	Class	B2	TBD	TBD	TBD
初始热导率 Initial Thermal Conductivity	ASTM - C 518	mW/mK	27	32	37	51
热膨胀系数 CTE	ISO 11359	10-6 K-1	50	50	50	70
使用温度 Service Temperature	/	°C	-150, +100	-150, +100	-150, +100	-150, +100
标准片材尺寸 Standard Sheet Dimensions	长度/Length	mm	2400	2400	2400	2400
	宽度/Width	mm	1200	1200	1200	1200
	厚度/Thickness	mm	3-450	3-450	3-450	3-400
			*加工方式，其他尺寸基于客户要求 *Finishing Options, other dimensions and closer tolerances upon request *以上数据为 23±1°C 和 50±5%湿度条件下测试平均值 *Above are the average values measured at 23+1°C and 50+5% as RH. *使用温度指持续使用温度，峰值温度可以更高 *Service temperature means for continuous service, peak temperature can be higher.			

备注/Notes:

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