

ProRox® PS 680

with FR-Tech™

ProRox PS 680 is a mandrel wound Pipe Sections. The insulation sections are made out of stone wool and are produced with special fiber structure and chemistry to ensure best possible fire performance.



Application

ProRox PS 680 with FR-Tech is engineered to deliver exceptional fire performance. Made of stonewool this proven, cost effective product is ideal for hydrocarbon fire rating of industrial pipe work up to 2 hours (UL 1709). More information can be found within our brochure.

Product properties in accordance with ASTM C547

Properties	Performance								Norms
Thermal conductivity at mean temperature	T_m (°F)	100	200	300	400	500	600	700	ASTM C335
	λ (BTU.in/hr.ft².°F)	0.27	0.31	0.36	0.41	0.47	0.54	0.61	
	T_m (°C)	38	93	149	204	260	316	371	
	λ (W/mK)	0.039	0.045	0.052	0.059	0.068	0.077	0.089	
Maximum use temperature	1,400°F (760°C)								ASTM C447
Sag resistance	≤ 2% at 1,400°F (760°C)								ASTM C411
Linear shrinkage	≤ 1% at 1,400°F (760°C)								ASTM C356
Surface burning characteristics	Flame spread index = 25; Smoke development index = 50								ASTM E84
Corrosion resistance	Evaluation on external stress corrosion cracking tendency of austenitic stainless steel = Passed Chemical analysis for Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁴⁻ ; Results fall within acceptability limits of ASTM C795 Trace quantity of water leachable chloride ions: ≤ 10 ppm								ASTM C692 / ASTM C795 ASTM C871 / ASTM C795 EN 13468
Water absorption	≤ 0.04 lb/ft² (≤ 0.2 kg/m²) ≤ 0.04 lb/ft² (≤ 0.2 kg/m²) (After 24 hrs. pre-heating at 482°F (250°C))								EN 13472
Vapor sorption	< 1% Weight								ASTM C1104
Influence on coating systems	Free from substances (e.g. silicone oil) that might impair surface wetting								VW 3.10.7

Compliance

- ProRox PS 680 pipe sections fully comply with the requirements as set by internationally recognized standards like ASTM C547: Grade A for Type I, II, IV, V. and ASTM C795.

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