

# ProRox® PS 980

with WR-Tech

ProRox PS 980 is a mandrel wound pipe section. The insulation sections are made out of stone wool and are produced with an innovative water repellent binder called WR-Tech to mitigate the risk of corrosion under insulation.



## Application

ProRox PS 980 is engineered to deliver exceptional compressive strength without susceptibility of the breakage and the dust associated with calcium silicate for a cleaner, safer working environment. Made of stone wool, this proven, cost effective product is ideal for steam and process pipe systems operating at temperatures up to 1,400°F (760°C) where energy conservation, personal protection and fire control are concerns.



## Product properties in accordance with ASTM C547

Properties	Performance								Norms
	$T_m$ (°F)	100	200	300	400	500	600	700	
Thermal conductivity at mean temperature	$\lambda$ (BTU.in/hr.ft <sup>2</sup> .°F)	0.27	0.31	0.36	0.41	0.47	0.54	0.61	ASTM C335
	$T_m$ (°C)	38	93	149	204	260	316	371	
	$\lambda$ (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 = 0; Smoke development index = 0								ASTM E84
Reaction to fire	Non combustible								IMO 2010 FTPC
Nominal density	≥ 11.25 lb/ft <sup>3</sup> / ≥ 180 kg/m <sup>3</sup>								ASTM C303
Corrosion resistance	Evaluation on external stress corrosion cracking tendency of austenitic stainless steel = Passed Chemical analysis for Cl <sup>-</sup> , F <sup>-</sup> , Na <sup>+</sup> , SiO <sub>4</sub> <sup>4-</sup> ; 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/ft <sup>2</sup> (≤ 0.2 kg/m <sup>2</sup> ) ≤ 0.04 lb/ft <sup>2</sup> (≤ 0.2 kg/m <sup>2</sup> ) (After 24 hrs. pre-heating at 482°F (250°C))								EN 13472
Vapor sorption	< 1% Weight								ASTM C1104
Compressive strength	8psi (53kPA) at 10 % compression								ASTM C165
Influence on coating systems	Free from substances (e.g. silicone oil) that might impair surface wetting								VW 3.10.7

## Compliance

- ProRox PS 980 Pipe Sections fully comply with the requirements as set by internationally recognized standards like ASTM C547: Grade A for Type I, II, IV, V. EN 14303, CINI 2.2.03, VDI 2055 and ASTM C795.
- Above product properties reflect only to ASTM standards. Compliance and Performance according to European (EN) standards can be found on our website. Please contact our sales representatives for an extended list of approvals & certifications.

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