

ProRox® PS 980^{NA}

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 stonewool, 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 C547¹⁾

Property	Performance							Test standard
	T _m (°F)	200	300	400	500	600	700	
Thermal conductivity	λ (BTU.in/hr.ft ² .°F)	0.31	0.36	0.41	0.47	0.54	0.61	ASTM C335
	T _m (°C)	93	150	204	260	316	371	
	λ (W/mK)	0.045	0.052	0.059	0.068	0.077	0.089	
Maximum use temperature	1400°F (760°C)							ASTM C411 / C447
Sag resistance	≤ 2% at 1400°F (750°C)							ASTM C411
Linear shrinkage	≤ 2% at 1400°F (760°C)							ASTM C356
Reaction to fire	Flame spread index = 0 Smoke development = 0							ASTM E84 UL723 / CAN ULC 102
Corrosion resistance	Stress corrosion cracking tendency of austenitic stainless steel = passed Chemical analysis (Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁴⁻): results fall within acceptability limits of ASTM C795 Trace quantities of water soluble chloride ions: ≤ 10 ppm							ASTM C692 ASTM C871 / ASTM C795 EN 13468 / ISO 12624
Water absorption	≤ 0.04 lb/ft ² (≤ 0.2 kg/m ²) at ambient conditions ≤ 0.04 lb/ft ² (≤ 0.2 kg/m ²) after 24 hrs pre-heating at 482°F (250°C)							EN 13472 / ISO 12623
Vapor sorption	< 1% Weight							ASTM C1104
Density	Actual density 11.2 lb/ft ³ (180 kg/m ³)							ASTM C302
Compressive strength	≥ 8 psi (≥ 53 kPa) at 10% compression							ASTM C165
Influence on coating systems	Free from substances that may impair surface wetting							VW 3.10.7 / VDMA 24364

1) All values are nominal values for standard industrial production. Standard industrial production tolerances applicable.

Compliance

- ProRox PS 980 full fills the requirements as set by ASTM C 547 Grade A type I, II, IV, V, CINI 2.2.03 and EN 14303 within a temperature range of T_m 200°F up to T_m 700°F.
- ROCKWOOL stone wool insulation is made from volcanic rock and is not classified as a hazardous substance in accordance with Note Q, regulation (EC) No. 1272/2008.



Disclaimer

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