ProRox® PS 965

with CR-Tech

ProRox PS 965 is a mandrel wound pipe section insulation made from stone wool. Each pipe section includes our innovative CR-Tech (corrosion resistant technology) additive. Our proprietary corrosion inhibitor is applied to the interior of the insulation, right where it contacts the pipe surface. As standard all pipe sections will also include our high temperature water repellant WR-Tech. This powerful combination can help shield your pipe from the costly dangers of CUI.



Application

The highly durable insulation sections are supplied split and hinged for easy snap-on assembly and are especially suitable for thermal and acoustic insulation of industrial pipe work.

Product properties in accordance with ASTM C547[1)]

Property	Performance								Test standard
Thermal conductivity	T_m (°F)	100	200	300	400	500	600	700	ASTM C335
	λ (BTU.in/hr.ft².°F)	0.25	0.29	0.35	0.40	0.47	0.56	0.63	
	T_m (°C)	38	93	150	204	260	316	371	
	λ (W/mK)	0.036	0.042	0.050	0.058	0.068	0.081	0.091	
Maximum use temperature	1200 °F (650 °C)								ASTM C411 / C447
Sag resistance	≤ 2% at 1200 °F (650 °C)								ASTM C411
Reaction to Fire	Flame spread index = 0 Smoke developed index = 0								ASTM E84 UL723 / CAN ULC 102
	Non combustable								IMO 2010 FTPC
Linear shrinkage	≤ 2% at 1200 °F (650 °C)								ASTM C356
Corrosion resistance	Stress corrosion cracking tendency of austenitic stainless steel = passed Chemical analysis (Cl^- , Fl^- , Na^+ , SiO_4^{4-}): results fall within acceptability limits of ASTM C795 Trace quantities of water soluble chloride ions: ≤ 10 ppm								ASTM C692 / C795 ASTM C871 / C795 EN 13468 / ISO 12624
Corrosion to steel	MLCR[2)] of steel when exposed to insulation extract plus 600 ppm chloride ≤ DI Water[3)] MCLR[2)] of steel when exposed to extract from insulation that is pre-heated to 482 °F (250 °C) for 24hrs ≤ DI Water[3)] Protection efficiency value = 0.1[4)]								ASTM C1617 ASTM C1617 ASTM G189[5)]
Water absorption	≤ 0.04 lb/ft² (≤ 0.2 kg/m²) at ambient conditions ≤ 0.04 lb/ft² (≤ 0.2 kg/m²) after 24 hrs pre-heating at 482 °F (250 °C)								EN 13472 / ISO 12623
Vapor sorption	< 1% weight								ASTM C1104
Density[6)]	Nominal density 8 lb/ft³ (128 kg/m³) / Actual density > 6.2 lb/ft³ (> 100 kg/m³)								ASTM C 302

1) All values are nominal values for standard industrial prodution. Standard industrial production tolerances applicable. 2) MLCR - Mass Loss Corrosion Rate. 3) DI water = 0 mg/kg chloride. 4) A value of protection efficiency of less than 1.0 indicates reduction in the severity of corrosion relative to the control condition. 5) 96 hour CWD (wet 18hrs @60C and dry 4 hrs @150C and 2 hour transition), with 100 ppm chloride solution, Control specimen water repellent Mineral Wool without CR-Tech, no annulus gap around pipe. 6) Density is not a performance criteria but is commonly referred to when specifying insulation. Actual density is the true density of the insulation and nominal density is the effective density of the insulation relative to a historic benchmark where the insulation contained 40% non-fibrous content also known as shot (ASTM C612-99).

Compliance

- ProRox PS 965 fully complies with the requirements as set by internationally recognized standards like ASTM C547 Grade A type I, II, IV, CINI 2.2.03 an EN14303.
- Noise reduction data available in accordance with ISO 15665.
- 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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