

Rock Wool Pipe

RS Durable, non-combustible, and efficient installation. These stone wool pipe sections effectively minimize energy loss and control noise in any environment.

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

Property	Performance								Test standard
Thermal conductivity	T_m (°F)	100	200	300	400	500	600	700	ASTM C335
	λ (BTU.in/hr.ft ² .°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
Linear shrinkage	≤ 2% at 1200 °F (650 °C)								ASTM C356
Reaction to Fire	Flame spread index = 0								ASTM E84
	Smoke developed index = 0								UL723 / CAN ULC 102
Corrosion resistance	Stress corrosion cracking tendency of austenitic stainless steel = passed								ASTM C692 / C795
	Chemical analysis (Cl ⁻ , F ⁻ , Na ⁺ , SiO ₄ ⁴⁻): results fall within acceptability limits of ASTM C795								ASTM C871 / C795
	Trace quantities of water soluble chloride ions: ≤ 10 ppm								EN 13468 / ISO 12624
Corrosion to steel	MLCR ²⁾ of steel when exposed to insulation extract plus 600 ppm chloride ≤ DI Water ³⁾								ASTM C1617
	MCLR ²⁾ of steel when exposed to extract from insulation that is pre-heated to 482 °F (250 °C) for 24hrs ≤ DI Water ³⁾								ASTM C1617
	Protection efficiency value = 0.1 ⁴⁾								ASTM G189 ⁵⁾
Water absorption	≤ 0.04 lb/ft ² (≤ 0.2 kg/m ²) at ambient conditions								EN 13472 / ISO 12623
	≤ 0.04 lb/ft ² (≤ 0.2 kg/m ²) after 24 hrs pre-heating at 482 °F (250 °C)								
Vapor sorption	< 1% weight								ASTM C1104
Density ⁶⁾	Nominal density 8 lb/ft ³ (128 kg/m ³) / Actual density > 6.2 lb/ft ³ (> 100 kg/m ³)								ASTM C 302

All values are nominal values for standard industrial production. 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

- RS Rock Wool Pipe fully complies with the requirements as set by internationally recognized standards like ASTM C547 Type I, II, IV, CINI 2.2.03 and EN14303.
- Noise reduction data available in accordance with ISO 15665.
- RS 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

As RS has no control over insulation design and workmanship, accessory materials or applications conditions, RS does not warranty the performance or result of any installation containing RS products. RS overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose. RS Technical Insulation reserves the right to make necessary product changes at any time. Technical specifications are thus stated subject to change.

