

PRODUCT DATASHEET



PAROC Pro Lock WR 140

Water repellent stone wool pipe section with a z-joint on the longitudinal and circumferential seams.

Insulation of industrial pipework in high temperatures.

PAROC stone wool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C. The insulating properties remain unchanged, but the compressive stress weakens. The softening temperature of stone wool products is over 1000°C.

Certification Number

0809-CPR-1016 Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland

Designation Code

MW-EN 14303-T8/T9-ST(+)-680-WS1-CL10

Nominal Density

140 kg/m³

Package Type

Carton on Pallet, Plastic on Pallet

Single Package Size

Carton 300x400x1200mm

Pallet Size

1200x1200mm

| DIMENSIONS | | |
|-----------------------------------------------------|-----------------------|----------------------------------|
| THICKNESS | INNER DIAMETER | PIPE SECTION LENGTH |
| 80-160 mm | 219-914 mm | 1200 mm |
| According to EN 13467 | According to EN 13467 | According to EN 13467 |
| PROPERTY | VALUE | ACCORDING TO |
| DIMENSIONAL STABILITY | | |
| Maximum Service Temperature - Dimensional Stability | 680 °C | EN 14303:2009+A1:2013 (EN 14707) |

Properties

| PROPERTY | VALUE | ACCORDING TO |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| FIRE PROPERTIES | | |
| Reaction to Fire, Euroclass | A1 _L | EN 14303:2009+A1:2013 (EN 13501-1) |
| Continuous Glowing Combustion | NPD | EN 14303:2009+A1:2013 |
| THERMAL PROPERTIES | | |
| Thermal Conductivity in 50 °C, λ_{50} | 0,041 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 100 °C, λ_{100} | 0,047 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 150 °C, λ_{150} | 0,054 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 200 °C, λ_{200} | 0,063 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 250 °C, λ_{250} | 0,073 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 300 °C, λ_{300} | 0,085 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 400 °C, λ_{400} | 0,110 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Dimensions and Tolerances | T8 for outer diameter < 150 mm, T9 for outer diameter \geq 150 mm | EN 14303:2009+A1:2013 |
| MOISTURE PROPERTIES | | |
| Water Absorption, Short Term WS, (W_p) | \leq 1 kg/m ² | EN 14303:2009+A1:2013 (EN 13472) |
| Water Vapour Diffusion Resistance | NPD | EN 14303:2009+A1:2013 (EN 13469) |
| Chloride Ions, Cl- | < 10 ppm | EN 14303:2009+A1:2013 (EN 13468) |
| Complies with the requirements set by BS 2972 Part 12 (even after preheated up to 250 °C). | | |
| SOUND PROPERTIES | | |
| Sound Absorption | NPD | EN 14303:2009+A1:2013 (EN ISO 354) |
| EMISSIONS | | |
| Release of Dangerous Substances | NPD | EN 14303:2009+A1:2013 |
| DURABILITY OF FIRE AND THERMAL PROPERTIES | | |
| Durability of Reaction to Fire Against Ageing/Degradation | No change in reaction to fire properties for mineral wool products. The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time. | |
| Durability of Reaction to Fire Against High Temperature | The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature. | |
| Durability of Thermal Resistance Against Ageing/Degradation | Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air. | |

PAROC Pro Lock WR 140 can be used to satisfy the requirements as given in the tables for insulation thickness in BS5422:2009. Paroc can offer help and assistance to customers to confirm that the insulation systems proposed do in fact, achieve the necessary performance criteria. PAROC Pro Lock WR 140 conforms to BS3958-4.



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