Orstech DP 65
Wired mat

CERTIFIED
ISO 9001 · ISO 14001
OHSAS 18001 · ISO 50001

Specification code: MW – EN 14303 – T2 – ST(+)560 – WS1 – CL10

PRODUCT DESCRIPTION

Orstech DP 65 is a lightly bonded stone wool mat stitched on galvanised wire mesh using galvanised wire. On request for temperatures higher than 400 °C and/or for stainless steel pipes/surfaces it is possible to produce mats with stainless steel wire and galvanised mesh (Orstech DP 65 X) or with stainless steel wire and stainless steel mesh (Orstech DP 65 X-X); all combinations according to AGI Q 132 and EN 10223-2.

APPLICATION

The wired mat is suitable for thermal and acoustic insulation of piping, appliances and vessels (both ends and cylindrical parts), residential heating systems and ducts.

Despite the fact that hydrophobing additives in the insulation impede the ingress of water, it is necessary to protect lamella mat in the construction against moisture and possible mechanical damage by a proper manner.

Orstech DP 65 has a maximum service temperature of 560 °C according to EN 14706. Binders and greasing agents in mineral wool products dissolve and evaporate in areas with temperatures > 150 °C. In the outer, colder areas, no dissolution and evaporation take place.

PACKAGING, TRANSPORT, WAREHOUSING

The product is supplied as free rolls or palletized. Material has to be transported in covered vehicles under such conditions to avoid moistening or other degradation.

BENEFITS

- AS quality – suitable for use over stainless steel

DIMENSIONS AND PACKAGING

Product	Thickness (mm) [1)]	Dimensions (mm)	Per package (m²)	Rolls / Package	Packages / Pallet	m² / Pallet
Orstech DP 65	50	1000 × 4000	4.0	1	21	84.0
Orstech DP 65	60	1000 × 3000	3.0	1	21	63.0
Orstech DP 65	80	1000 × 2500	2.5	1	21	52.5
Orstech DP 65	100	1000 × 2000	2.0	1	21	42.0

[1)] Thickness has been measured under the load of 50 Pa.

TECHNICAL PARAMETERS

Parameter			Unit	Value					Standard			
THERMAL INSULATING PROPERTIES												
Declared value of the thermal conductivity coefficient λ_D according to EN ISO 13787			°C	50	100	150	200	250	300	400	500	560
			$W \cdot m^{-1} \cdot K^{-1}$	0.041	0.048	0.058	0.068	0.081	0.097	0.134	0.183	0.220
Measured value of the thermal conductivity coefficient according to EN 12667*			$W \cdot m^{-1} \cdot K^{-1}$	0.039	0.047	0.056	0.067	0.080	0.095	0.129	0.173	0.203
Maximum service temperature ST(+) / on the facing			°C	560 / max. 100					EN 14706			
Specific heat capacity c_p*			$J \cdot kg^{-1} \cdot K^{-1}$	800					-			
PHYSICAL PROPERTIES												
Density*			$kg \cdot m^{-3}$	65					EN 1602, EN 13470			
Short term water absorption (W_p) WS			$kg \cdot m^{-2}$	<< 1					EN 1609			
Longitudinal air-flow resistance Ξ*			$kPa \cdot s \cdot m^{-2}$	> 25					EN ISO 9053-1			
FIRE SAFETY PROPERTIES												
Reaction to fire			-	A1					EN 13501-1			
Melting temperature t_t*			°C	≥ 1000					DIN 4102 part 17			
ACOUSTIC PROPERTIES												
The practical sound absorption coefficient α_p according to EN ISO 354 and EN ISO 11654*	Frequency		Hz	125	250	500	1000	2000	4000			
	Thickness	40	mm	0.15	0.50	0.95	0.95	0.95	1.00			
		60	mm	0.30	0.85	1.00	1.00	1.00	1.00			
		80	mm	0.40	1.00	1.00	1.00	1.00	1.00			
		100	mm	0.50	1.00	1.00	1.00	1.00	1.00			
Definition of single numerical value according to EN ISO 11654*	Weighted sound absorption coefficient		-	α_w			Absorption class					
	Thickness	40	mm	0.80 (H)			B					
		60	mm	1.00			A					
		80	mm	1.00			A					
		100	mm	1.00			A					

* Informative non-declared value beyond scope of CPR, obtained by concrete tests.

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