

AEROFLEX® HF



AEROFLEX® HF - the halogen free insulation material for highest safety requirements.

A special feature of the halogen free insulation material is the reaction to fire. High flexibility, UV resistance and a wide temperature range are the basic characteristics of all AEROFLEX® insulation material.

Insulation material

- Light-weight, flexible closed cell insulation made of EPDM
- Non-corrosiveness to copper and corrugated stainless steel pipes (according to DIN 1988, Part 7)
- Excellent thermal insulation values:
 λ 40°C = 0,040 W/mK
- Temperature resistance from -50 °C up to 150 °C



Application

AEROFLEX® HF is used to insulate and protect pipe lines, containers and air ducts, especially in the shipbuilding and electronic industry (where due to safety reasons the importance lays on chlorine-free material).

Accessories

Tape and adhesives

AEROFLEX® HF				Technical data		
Characteristics	Values (EN)	According to	Values (USA)	According to	Testing methods (EN)	Testing methods (USA)
Minimum service temperature	-50°C		-57°C		EN14706, EN14707	ASTM C411
Recommended max. temperature for permanent thermal stability	+150°C		+125°C	ASTM C534		ASTM C411
Recommended temperature for short-term thermal stability	+175°C					
Maximum service temperature of ST (+) insulation	+180°C				EN14706, EN14707	
Thermal conductivity at 0°C	0,036 W/mK	EN14304, EN13467	0.036 W/mK		EN12667, EN ISO 8497	ASTM C177, ASTM C518
Thermal conductivity at +10°C	0,037 W/mK	EN14304, EN13467			EN12667, EN ISO 8497	ASTM C177, ASTM C518
Thermal conductivity at +24°C			0.039 W/mK	ASTM C534		ASTM C177, ASTM C518
Thermal conductivity at +40°C tube (sheets)	0,040 W/mK (0,042 W/mK)	EN14304, EN13467	0.041 W/mK		EN12667, EN ISO 8497	ASTM C177, ASTM C518
Water vapour diffusion resistance at 23°C	$\mu > 3000$				EN12086, EN13469	
Water vapor permeability, max			0.07 perm-inch	ASTM C534		ASTM E96
Water absorption (weight%)	5		2.09			ASTM D1056
Water absorption (volume%)			0.11	ASTM C534		ASTM C1763
Reaction to fire of tubes	D _s -2,d0	EN14304			EN13501-1, ISO 11925-2	ASTM E84
Reaction to fire of sheets	D _s -3,d0	EN14304			EN13501-1, ISO 11925-2	ASTM E84
Reaction to fire of sheets SA	D _s -3,d0	EN14304			EN13501-1, ISO 11925-2	
Density	40-80kg/m³		40-80kg/m³		EN13470	ASTM D 1667
Heat stability (% linear shrinkage) (@104°C , 7 days)			< 7%	ASTM C534		ASTM C534
Dimensions and tolerances	conform EN14304, tabel 1		conform ASTM C534, tabel 2		EN822, EN823, EN13467	ASTM C534