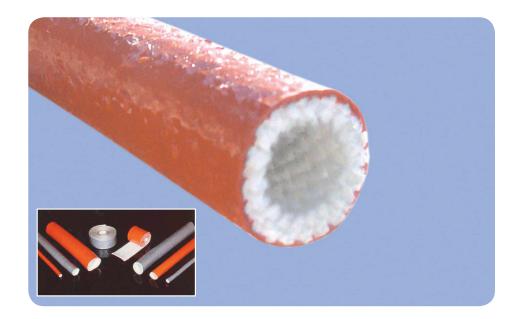


Aerospace Thermotubix®

Product Highlights

- Operating temperature -54°C to +260°C (-65°F to +500°F)
- Fire protection up to +1100°C (+2012°F) (15 min) + 800°C (+1472°F) (30 min)
- Flexibility to -54°C (-65°F)
- EN 45545-2
- ASTM E-162 ASTM E-662 BSS 7239 SMP 800-C
- Resistance to hydraulic fluids and lubricating oils



Aerospace Thermotubix® is a thickwall braided fiberglass sleeving coated with a specially compounded, flame retardant silicone rubber. This product can be easily installed on cables and hoses and expands to pass over fittings and couplings.

Aerospace Thermotubix grade offers an effective protection against sustained high temperatures, flames and molten metal splashes that can seriously damage electrical cables and hydraulic, gas and lubricant supply lines.

The construction of Thermotubix ensures an excellent fire protection for tubing up to +1100°C (+2012°F) peak temperature according to SAE-ASTM specifications.

This product provides thermal protection against internal and external hazards in a variety of industries, including aeronautics, naval, iron and steel, and automotive.

There is also a coated fiberglass tape, called Thermobande™, available. This is used for the fire protection of tubing after the fitting of end terminations.



Our manufacturing sites are certified ISO 9001, ISO/TS 16949, or AS/EN 9100, and ISO 14001

ATTX_08262016





Performance Data – Aerospace Thermotubix®

Property	Test Method	Result
Operating Temperature		-54°C to +260°C (-65°F to +500°F)
Low Temperature Flexibility	ASTM D-746	-54°C (-65°F)
Flammability/Toxicity/Smoke Density	ASTM D-350, Method B	Not inflammable I2 F0 S4, SR2, ST2 CIT 8 min : 0,036 ; FED 30 min : 0,031 R22 HL3 R23 HL3 > 64 mm R9 HL3 Pass
Peak temperature	3IVIF 600-C - D33 7239	Pass 15 min. at +1100°C (+2012°F) 30 min. at +800°C (+1472°F)
Fluid Resistance	1 Hour soak in: Gasoline, Engine oil, Power Steering fluid, Transmission fluid, Coolant, Battery acid.	No cracking or degradation resulted from soak in any of the tested fluid.

All numeric data show average or typical values.

Product Specifications

Aerospace Thermotubix meets SAE Aerospace standard AS1072 type 2 for "Sleeve, hose assembly, fire protection". Aerospace Thermotubix allows appropriate hose assemblies by qualified manufacturers to meet SAE Aerospace standard 1055.

Commercial Part Number	Internal Diameter mm (in)	Wall Thickness mm (in)	NATO Specifications	Standard Pkg m (ft)
Thermotubix 6	6 (1/8")	4 (9/64")	_	30 (90)
Thermotubix 8	8 (5/16")	4 (9/64")	5970-14-455-2318	30 (90)
Thermotubix 9.5	9,5 (3/8")	4 (9/64")	5970-14-455-2322	30 (90)
Thermotubix 12.7	12,7 (1/2")	4 (9/64")	5970-14-455-2324	30 (90)
Thermotubix 16	16 (1/8")	4 (9/64")	5970-14-413-6212	30 (90)
Thermotubix 19	19 (3/4")	4 (9/64")	5970-14-413-6213	30 (90)
Thermotubix 22	22 (7/8")	4 (9/64")	5970-14-413-6214	30 (90)
Thermotubix 25	25 (1")	4 (9/64")	5970-14-413-6215	15 (50)
Thermotubix 32	32 (1-1/4")	4 (9/64")	5970-14-413-6216	15 (50)
Thermotubix 38	38 (1-1/2")	4 (9/64")	5970-14-413-6217	15 (50)
Thermotubix 45	45 (1-3/4")	4 (9/64")	5970-14-413-6220	9 (30)
Thermotubix 51	51 (2")	4 (9/64")	5970-14-413-6221	9 (30)
Thermotubix 57	57 (2-1/4")	4 (9/64")	5970-14-413-6222	9 (30)
Thermotubix 64	64 (2-1/2")	4 (9/64")	5970-14-455-2328	6 (20)
Thermotubix 76	76 (3")	4 (9/64")	5970-14-455-2331	6 (20)
Thermotubix 89	89 (3,5")	4 (9/64")	5970-14-455-2332	6 (20)
Thermotubix 101	101 (4")	4 (9/64")	5970-14-455-2334	6 (20)

Commercial Part Number	Internal Diameter mm (in)	Wall Thickness mm (in)	NATO Specifications	Standard Pkg m (ft)
Thermobande 25	25 (1")	3 (1/8")	_	30 (90)
Thermobande 51	51 (2")	3 (1/8")	_	30 (90)
Thermobande 76	76 (3")	3 (1/8")	_	30 (90)
Thermobande 102	102 (4")	3 (1/8")	_	15 (50)
Thermobande 127	127 (5")	3 (1/8")	_	15 (50)
Thermobande 152	152 (6")	3 (1/8")	_	15 (50)

Part Numbering System

Example	Product Name	Size	Color	Quantity
	Thermotubix	19	12 (red-iron)	30m (90ft)

The information and illustrations given herein are believed to be reliable. Federal-Mogul makes no warranties as to their accuracy or completeness and disclaims any liability in connection with their use. Federal-Mogul's only obligations are those in the standard term of sale for this product and Federal-Mogul will not be liable for any consequential or other damages arising out of the use or misuse of this product. Users should make their own evaluations to determine the suitability of the product for specific applications.



USA: (1) 800 926 2472 Europe: (33) 3 44 39 06 06 Japan: (81) 45 479 0201 China: (86) 21 6182 7688

www.federalmogul.com/sp