

MAXFLEX[®] HF

HALOGEN FREE COMPLETE CLOSE CELL ELASTOMERIC THERMAL INSULATION

Flexible EPDM Insulation with closed cell • Synthetic rubber without halogen and PVC • The absence of halogen and PVC avoid the corrosion of the stainless steel tube and in case of fire the smokes are non toxic

Halogen Free Insulation for Indoor Installation

- ♦ INDUSTRIAL PLANTS
- ♦ PUBLIC TRANSPORTS
- ♦ LABORATORIES
- ♦ COMPUTER ROOMS
- ♦ NAVAL INDUSTRY
- ♦ Minimal smoke and toxic emission in the event of fire
- ♦ Prevention of stress corrosion
- ♦ Weather, UV-ray and ozone resistance




MAXFLEX[®]
by MAXLINE
ELASTOMERIC
thermal insulation

MAXFLEX® HF

MAXFLEX® HF is the Halogen Free, high-grade elastomeric material specially designed for thermal insulation usage. With a large number of fine cross-linked closed cells' molecular structure, MAXFLEX® HF provides excellent moisture and vapor resistance, long year service of low thermal conductivity value (K-Value) and features best values for hot water piping system, air duct system, chilled water piping and refrigerating system.

Free from Halogen component, MAXFLEX® HF is specially suitable for all the ambients where special standard in case of fire are requested, such computer room, laboratories, hospitals, ships, food industry, public transport etc.

- ☒ HALOGEN FREE (WITHOUT CHLORIDE AND BROMIDE IONS)
- ☒ DIOXIN FREE, PVC FREE, NITROSAMINE FREE, CFC / HCFC FREE, ODP ZERO
- ☒ MINIMAL SMOKE AND TOXIC EMISSIONS IN THE EVENT OF FIRE
- ☒ THE FLAMMABLE COMPONENTS DO NOT CONTAIN ANY CORROSIVE ELEMENTS
- ☒ LONG YEARS SERVICE OF STABLE AND LOW THERMAL CONDUCTIVITY (K-Value)
- ☒ EXCELLENT MOISTURE AND VAPOR RESISTANCE OUTSTANDING OZONE / UV AND WEATHER RESISTANCE

MAXFLEX® HF SPECIFICATIONS

PHYSICAL PROPERTIES *		MAXFLEX® HF					TEST METHOD *	INSTITUTE
Material	Synthetic Elastomeric without Chloride and Bromide Ions							
Cell Structure	Complete closed cell					-		
Density lbs / ft³ (g / cm³)	3 ~ 5 (0.048 ~ 0.080) **					ASTM D 1667	PSB corp., Singapore	
Thermal Conductivity BTU.in / ft² hr. °F (W / mK)	-4 °F (-20 °C)	32 °F (0 °C)	75 °F (24 °C)	90 °F (32 °C)	104 °F (40 °C)	ASTM C177 JIS A 1412 DIN 52613	FIW Munchen, Germany	
	0.22 0.031	0.23 0.033	0.25 0.036	0.26 0.037	0.27 0.038			
Service Temperature **	-57 °C to 150 °C					MAXFLEX HF becomes hard at -57 °C but can be used even at -200 °C		
Water Vapor Permeability (kg / Pa.s.m)	0.10 perm-in (0.15 x 10 ⁻¹²)					ASTM C 355 ASTM E96 ***	PSB corp., Singapore	
Moisture Resistance (μ Value)	μ not less than 10,000					DIN 52615	PSB corp., Singapore	
Water Absorption (weight %)	not more than 1.5%					ASTM D 1056	PSB corp., Singapore	
Ozone Resistance	Non crack					ASTM D 1171	PSB corp., Singapore	
Heat Stability (% shrinkage) at 200 °F and 220 °F for 7 days	3.5 and 4.5 respectively					ASTM C 534	PSB corp., Singapore	
Ultra-Violet Resistance	Non crack					ISO 4892-2	PSB corp., Singapore	
Fire Performance	Class V0					UL - 94	PSB corp., Singapore	
	Self-extinguishing					ASTM D635	PSB corp., Singapore	
	B2					DIN 4102	Bodycote, Germany	
Behavior in Fire	Self-extinguishing, does not spread flame, does not drip					-	-	
Nitrosamine Contents	No detected					BS EN 12868	PSB corp., Singapore	
Fungus Resistance	Passed					ASTM G21	PSB corp., Singapore	
Noise Reduction	36.3 db					DIN 52219	IBP, Germany	
Flexibility	Excellent					-	-	
Stainless Steel & Copper Corrosion	Negligible					-	-	

NOTE: * Figures show the average values obtained by the world well-known testing institutes.

** At temp. under -57 °C MAXFLEX® HF becomes hard, but it doesn't affect thermal conductivity nor water vapor permeability.

*** Water vapor permeability test was done under test method ASTM E96 dehydrate test method at 37.8 °C

MAXFLEX® HF Standard Sheet Insulation and Continuous Sheet Roll

MAXFLEX® HF Sheet Standard Flat Sheet Continuous Sheet Roll	Product Codes (Sizes, Length, Quantity per carton)								
	6 mm. thick * (1/4 inch)	9 mm. thick * (3/8 inch)	13 mm. thick (1/2 inch)	16 mm. thick (5/8 inch)	19 mm. thick (3/4 inch)	25 mm. thick (1 inch)	32 mm. thick (1-1/4 inch)	38 mm. thick (1-1/2 inch)	50 mm. thick (2 inch)
Standard Flat Sheet Size 0.50 M. x 2.0 M.	MSF 1 06 HF (24 M ² / ctn)	MSF 1 09 HF (16 M ² / ctn)	MSF 1 13 HF (12 M ² / ctn)	MSF 1 16 HF (10 M ² / ctn)	MSF 1 19 HF (8 M ² / ctn)	MSF 1 25 HF (6 M ² / ctn)	MSF 1 32 HF (5 M ² / ctn)	MSF 1 38 HF (4 M ² / ctn)	MSF 1 50 HF (3 M ² / ctn)
Standard Flat Sheet Size 0.50 M. x 2.0 M.	MSF 2 06 HF (48 M ² / ctn)	MSF 2 09 HF (32 M ² / ctn)	MSF 2 13 HF (24 M ² / ctn)	MSF 2 16 HF (20 M ² / ctn)	MSF 2 19 HF (16 M ² / ctn)	MSF 2 25 HF (12 M ² / ctn)	MSF 2 32 HF (10 M ² / ctn)	MSF 2 38 HF (8 M ² / ctn)	MSF 2 50 HF (6 M ² / ctn)
Sheet Roll Width 1 M. Continuous Length	MSR 06 HF (L= 22 M.) (22 M ² / ctn)	MSR 09 HF (L= 15 M.) (15 M ² / ctn)	MSR 13 HF (L= 11 M.) (11 M ² / ctn)	MSR 16 HF (L= 10 M.) (10 M ² / ctn)	MSR 19 HF (L= 7 M.) (7 M ² / ctn)	MSR 25 HF (L= 5 M.) (5 M ² / ctn)	MSR 32 HF (L= 4 M.) (4 M ² / ctn)	MSR 38 HF (L= 3 M.) (3 M ² / ctn)	MSR 50 HF (L= 2 M.) (2 M ² / ctn)

▲ Note: * Insulation 6 mm. and 9 mm. thick shall be supplied with one side skin.

MAXFLEX® HF Insulation Tube : 2 Meter Length / Piece

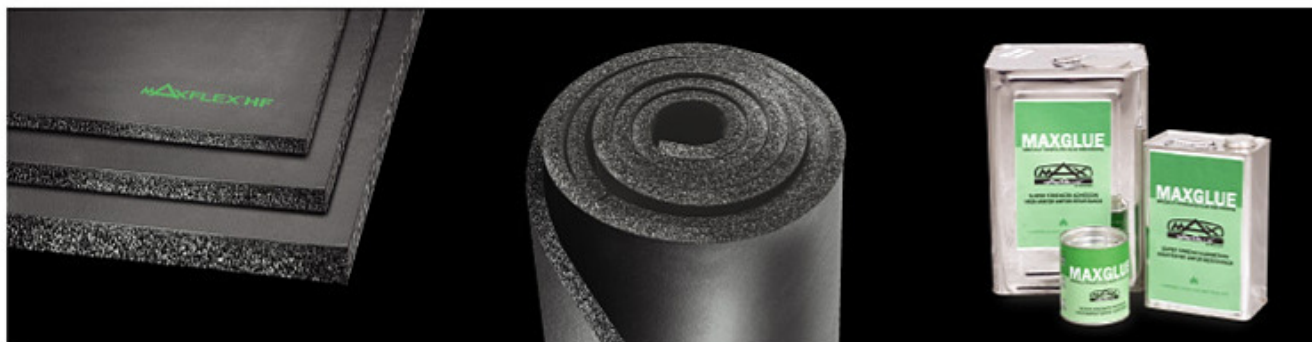
ID of MAXFLEX HF Tube		Pipe Size			Code number (Quantity : Meters / carton)					
mm.	Inch	Copper Tube (mm.)	Iron Pipe (mm.)	PVC Pipe (mm.)	6 mm. Wall (1 / 4" wall)	9 mm. Wall (3 / 8" wall)	13 mm. Wall (1 / 2" wall)	19 mm. Wall (3 / 4" wall)	25 mm. Wall (1" wall)	32 mm. Wall (1-1 / 4" wall)
6	1/4"	6	-	-	MFO6 x 06 HF (496)	MF09 x 06 HF (332)	MF13 x 06 HF (200)	-	-	-
9	3/8"	9	-	-	MFO6 x 09 HF (364)	MF09 x 09 HF (266)	MF13 x 09 HF (172)	MF19 x 09 HF (98)	-	-
13	1/2"	13	6	6	MFO6 x 13 HF (316)	MF09 x 13 HF (234)	MF13 x 13 HF (162)	MF19 x 13 HF (88)	MF25 x 13 HF (54)	-
16	5/8"	16	9	9	MFO6 x 16 HF (266)	MF09 x 16 HF (192)	MF13 x 16 HF (136)	MF19 x 16 HF (78)	MF25 x 16 HF (52)	MF32 x 16 HF (34)
19	3/4"	19	-	-	MFO6 x 19 HF (220)	MF09 x 19 HF (166)	MF13 x 19 HF (118)	MF19 x 19 HF (72)	MF25 x 19 HF (50)	MF32 x 19 HF (32)
22	7/8"	22	13	13	MFO6 x 22 HF (180)	MF09 x 22 HF (136)	MF13 x 22 HF (98)	MF19 x 22 HF (64)	MF25 x 22 HF (42)	MF32 x 22 HF (32)
25	1"	-	-	-	-	MF09 x 25 HF (108)	MF13 x 25 HF (80)	MF19 x 25 HF (50)	MF25 x 25 HF (40)	MF32 x 25 HF (30)
28	1-1/8"	28	19	19	-	MF09 x 28 HF (98)	MF13 x 28 HF (78)	MF19 x 28 HF (48)	MF25 x 28 HF (40)	MF32 x 28 HF (24)
32	1-1/4"	-	-	-	-	MF09 x 32 HF (92)	MF13 x 32 HF (64)	MF19 x 32 HF (38)	MF25 x 32 HF (28)	MF32 x 32 HF (24)
35	1-3/8"	-	25	25	-	MF09 x 35 HF (84)	MF13 x 35 HF (58)	MF19 x 35 HF (36)	MF25 x 35 HF (24)	MF32 x 35 HF (22)
38	1-1/2"	-	-	-	-	MF09 x 38 HF (78)	MF13 x 38 HF (52)	MF19 x 38 HF (34)	MF25 x 38 HF (22)	MF32 x 38 HF (18)
42	1-5/8"	42	32	32	-	MF09 x 42 HF (60)	MF13 x 42 HF (48)	MF19 x 42 HF (32)	MF25 x 42 HF (22)	MF32 x 42 HF (16)
45	1-3/4"	-	-	-	-	MF09 x 45 HF (54)	MF13 x 45 HF (42)	MF19 x 45 HF (26)	MF25 x 45 HF (20)	MF32 x 45 HF (14)
48	1-7/8"	-	38	38	-	MF09 x 48 HF (50)	MF13 x 48 HF (40)	MF19 x 48 HF (24)	MF25 x 48 HF (18)	MF32 x 48 HF (14)
51	2"	-	-	-	-	MF09 x 51 HF (48)	MF13 x 51 HF (36)	MF19 x 51 HF (24)	MF25 x 51 HF (16)	MF32 x 51 HF (12)
54	2-1/8"	54	-	-	-	MF09 x 54 HF (46)	MF13 x 54 HF (34)	MF19 x 54 HF (24)	MF25 x 54 HF (16)	MF32 x 54 HF (12)
57	2-1/4"	-	-	-	-	MF09 x 57 HF (46)	MF13 x 57 HF (32)	MF19 x 57 HF (22)	MF25 x 57 HF (14)	MF32 x 57 HF (10)
60	2-3/8"	-	51	51	-	MF09 x 60 HF (46)	MF13 x 60 HF (32)	MF19 x 60 HF (22)	MF25 x 60 HF (12)	MF32 x 60 HF (10)
64	2-1/2"	-	-	-	-	-	MF13 x 64 HF (30)	MF19 x 64 HF (18)	MF25 x 64 HF (12)	MF32 x 64 HF (10)
67	2-5/8"	67	-	-	-	-	MF13 x 67 HF (26)	MF19 x 67 HF (18)	MF25 x 67 HF (12)	MF32 x 67 HF (8)
73	2-7/8"	-	64	64	-	-	MF13 x 73 HF (26)	MF19 x 73 HF (18)	MF25 x 73 HF (10)	MF32 x 73 HF (8)
76	3"	76	-	-	-	-	MF13 x 76 HF (26)	MF19 x 76 HF (18)	MF25 x 76 HF (10)	MF32 x 76 HF (8)
80	3-1/8"	80	-	-	-	-	MF13 x 80 HF (24)	MF19 x 80 HF (14)	MF25 x 80 HF (8)	MF32 x 80 HF (8)
83	3-1/4"	-	-	-	-	-	MF13 x 83 HF (22)	MF19 x 83 HF (14)	MF25 x 83 HF (8)	MF32 x 83 HF (8)
90	3-1/2"	-	76	76	-	-	MF13 x 90 HF (22)	MF19 x 90 HF (14)	MF25 x 90 HF (8)	MF32 x 90 HF (8)
92	3-5/8"	92	-	-	-	-	MF13 x 92 HF (20)	MF19 x 92 HF (14)	MF25 x 92 HF (8)	MF32 x 92 HF (6)
98	3-7/8"	-	-	-	-	-	MF13 x 98 HF (18)	MF19 x 98 HF (14)	MF25 x 98 HF (6)	MF32 x 98 HF (6)
102	4"	-	90	90	-	-	MF13 x 102 HF (16)	MF19 x 102 HF (14)	MF25 x 102 HF (6)	MF32 x 102 HF (6)
105	4-1/8"	105	-	-	-	-	MF13 x 105 HF (16)	MF19 x 105 HF (12)	MF25 x 105 HF (6)	MF32 x 105 HF (6)
115	4-1/2"	-	102	102	-	-	MF13 x 115 HF (16)	MF19 x 115 HF (12)	MF25 x 115 HF (6)	MF32 x 115 HF (6)
130	5-1/8"	130	-	-	-	-	MF13 x 130 HF (12)	MF19 x 130 HF (8)	MF25 x 130 HF (4)	MF32 x 130 HF (4)
140	5-1/2"	-	127	127	-	-	MF13 x 140 HF (12)	MF19 x 140 HF (8)	MF25 x 140 HF (4)	MF32 x 140 HF (4)
165	6-1/2"	-	152	152	-	-	-	MF19 x 165 HF (6)	MF25 x 165 HF (4)	MF32 x 165 HF (4)



DIMENSION OF PACKAGING

	W. (cm.)	L. (cm.)	H. (cm.)
TUBE 2 M.	39	207	33
STANDARD SHEET 0.5 x 2 M.	56	207	19
STANDARD SHEET 1 x 2 M.	110	207	19
SHEET ROLL	46	110	46

Insulation Tubes 2 M. length / piece, wall 6 mm.
to 32 mm. thick, ID 6 mm. to 165 mm.



Standard Flat Insulation Sheet
size 0.5 M x 2.0 M and 1.0 M x 2.0 M,
6 mm. to 50 mm. thick.

Continuous Sheet Roll
sheet width 1.0 M.,
6 mm. to 50 mm. thick.

MAXGLUE adhesive for MAXFLEX® HF
700 gm./can and 3,000 gm./gal.



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