



## **IT-FLEX HF HALOGEN FREE**

- ★ Excellent insulation performance
- ★ Closed-cell microcellular structure
- ★ Halogen free (chlorine, bromine, fluorine) and PVC free
- ★ Low emission and low smoke toxicity in the event of fire
- ★ IMO certified. MED Directive 96/98/CE
- ★  $\lambda$  at 0 °C  $\leq$  0,036 W/m•K -  $\lambda$  at 40 °C  $\leq$  0,040 W/m•K
- ★  $\mu \geq$  2000

<b>MATERIAL</b>	Black closed-cell flexible elastomeric foam (FEF).
<b>PRODUCT SPECIFICATION</b>	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
<b>PRODUCT RANGE</b>	Self-adhesive and standard tubes in bars, with diameters from 10 to 114 mm and in thicknesses from 9 to 32 mm. Sheets in rolls in thicknesses from 6 to 32 mm. Tapes with a thickness of 3 mm.
<b>PRODUCT APPLICATION</b>	Thermal insulation of refrigeration, heating and air-conditioning services in commercial, industrial and domestic applications. Especially suitable for naval, rail and civil applications where low emission and low smoke toxicity material is required in the event of fire.
<b>MAIN CHARACTERISTICS</b>	Flexible and expanded CFC, HCFC and PVC-free rubber foam. It is dust and fibre free and does not contain halogens.

Technical information	Reference data	Test standards
<b>SERVICE TEMPERATURE</b> Maximum temperature of transported fluids Minimum temperature of transported fluids	+ 130 °C - 45 °C	EN 14706 - 14707
<b>THERMAL CONDUCTIVITY <math>\lambda</math></b>	At mean temp. of 0 °C $\leq$ 0,036 W/m•K At mean temp. of 40 °C $\leq$ 0,040 W/m•K	EN ISO 8497 - EN 12667
<b>WATER VAPOUR DIFFUSION FACTOR <math>\mu</math></b>	$\geq$ 2000	EN 13469 - EN 12086
<b>REACTION TO FIRE</b>	EUROCLASS { Tubes thk. 6-32 mm - D <sub>L</sub> - s <sub>2</sub> , d <sub>0</sub> Sheets thk. 6-25 mm and tapes- D - s <sub>3</sub> , d <sub>0</sub> Sheets thk. 32 mm - E	EN - 13501 - 1
<b>RAILWAYS</b>	HL 1 (Low emission, low toxicity in the event of fire)	EN - TS 45545
<b>SHIPYARDS (MED)</b>	Meets requirements	IMO RES. A 653 (16) - IMO MSC/Circ 1004 DIR. MED 96/98 Modules B and D
<b>CORROSION RISK</b>	MEETS TEST REQUIREMENTS	EN 13468
<b>ANTIMICROBIAL BEHAVIOUR</b>	Meets requirements	AATCC test method 30 - 2004
<b>DIMENSIONAL TOLERANCES</b>	In accordance with table 1 - European Standard EN 14304	

\* NOTE: for lower temperature applications please contact our technical dept.

Documents and certifications are available upon registration on our website: [www.evocellmobius.it](http://www.evocellmobius.it)

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All normatives quoted in this document are updated to the latest issued versions.

# IT-FLEX HF "HALOGEN FREE" - INSULATION TUBES: LENGTH 2 m



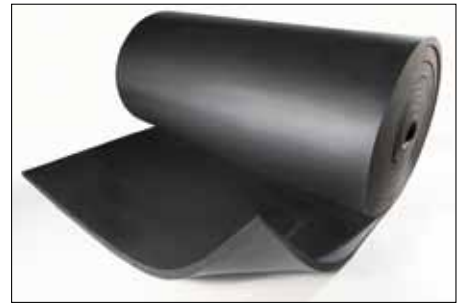
COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness F 9 mm			Thickness H 13 mm			Thickness M 19 mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4"													
7,93	8	5/16"													
9,52	10	3/8"	10,10	1/8"	6		EV10HF09x10	266	6,432	EV10HF13x10	172	8,589			
12,70	12	1/2"					EV10HF09x12	234	6,756	EV10HF13x12	162	9,379			
	14		13,60	1/4"	8										
							EV10HF09x15	192	7,958	EV10HF13x15	136	10,287	EV10HF19x15	78	17,827
15,87	16	5/8"				16									
	18		17,20	3/8"	10		EV10HF09x18	166	8,319	EV10HF13x18	118	10,730	EV10HF19x18	72	21,402
19,05		3/4"				20									
22,22	22	7/8"	21,30	1/2"	15		EV10HF09x22	136	8,535	EV10HF13x22	98	11,283	EV10HF19x22	64	22,237
25,40		1"				25									
			26,90	3/4"	20										
28,57	28	1-1/8"					EV10HF09x28	98	10,568	EV10HF13x28	78	13,230	EV10HF19x28	48	25,859
						32									
34,92	35	1-3/8"	33,70	1"	25		EV10HF09x35	78	11,921	EV10HF13x35	58	15,987	EV10HF19x35	36	28,875
						40									
41,27	42	1-5/8"	42,40	1-1/4"	32		EV10HF09x42	60	14,744	EV10HF13x42	48	18,862	EV10HF19x42	32	33,290
			48,30	1-1/2"	40		EV10HF09x48	50	16,507	EV10HF13x48	40	20,935	EV10HF19x48	24	42,599
						50									
53,97	54	2"					EV10HF09x54	46	18,800	EV10HF13x54	34	25,222	EV10HF19x54	24	47,773
			60,30	2"	50		EV10HF09x60	46	21,829	EV10HF13x60	32	29,411	EV10HF19x60	22	58,792
	64					63									
	70														
	76,10		76,10	2-1/2"	65	75				EV10HF13x76	26	36,009	EV10HF19x76	18	65,732
	80														
	88,90		88,90	3"	80	90				EV10HF13x89	24	43,689	EV10HF19x89	14	74,783
			101,3/104,3	3-1/2"											
	108	4-1/4"								EV10HF13x108	16	52,603	EV10HF19x108	12	78,200
	114	4-1/2"	114,30	4"	100	110							EV10HF19x114	12	79,109
						125									
	133														
			139,70	5"	125	140									
	159	6-1/4"	159			160									

## IT-FLEX HF "HALOGEN FREE" - INSULATION TUBES: LENGTH 2 m



COPPER TUBES (CU)			STEEL TUBES (FE)			PE/PP/PVC TUBES	Thickness P 25 mm			Thickness T 32 mm		
ø ext. mm	ø ext. mm	ø inches	ø ext. mm	ø inches	DN mm	ø ext. mm	Code	m/box	Price €/m	Code	m/box	Price €/m
6,35	6	1/4"										
7,93	8	5/16"										
9,52	10	3/8"	10,10	1/8"	6							
12,70	12	1/2"										
	14		13,60	1/4"	8							
15,87	16	5/8"				16						
	18		17,20	3/8"	10		EV10HF25x18	50	45,214			
19,05		3/4"				20						
22,22	22	7/8"	21,30	1/2"	15		EV10HF25x22	42	45,297	EV10HF32x22	32	56,417
25,40		1"				25						
			26,90	3/4"	20							
28,57	28	1-1/8"					EV10HF25x28	40	47,662	EV10HF32x28	24	61,233
						32						
34,92	35	1-3/8"	33,70	1"	25		EV10HF25x35	24	53,334	EV10HF32x35	22	67,463
						40						
41,27	42	1-5/8"	42,40	1-1/4"	32		EV10HF25x42	22	66,452	EV10HF32x42	16	83,527
			48,30	1-1/2"	40		EV10HF25x48	18	73,801	EV10HF32x48	14	93,283
						50						
53,97	54	2"					EV10HF25x54	16	84,613	EV10HF32x54	12	107,432
			60,30	2"	50		EV10HF25x60	12	88,620	EV10HF32x60	10	115,641
	64					63	EV10HF25x64	12	95,710			
	70						EV10HF25x70	10	119,314			
	76,10		76,10	2-1/2"	65	75	EV10HF25x76	10	122,869	EV10HF32x76	8	139,970
	80											
	88,90		88,90	3"	80	90	EV10HF25x89	8	150,056	EV10HF32x89	8	156,645
			101,3/104,3	3-1/2"						EV10HF32x102	8	204,349
	108	4-1/4"										
	114	4-1/2"	114,30	4"	100	110	EV10HF25x114	6	187,909	EV10HF32x114	6	224,699
						125						
	133											
			139,70	5"	125	140						
	159	6-1/4"	159			160						

## IT-FLEX HF "HALOGEN FREE" - SHEETS IN ROLLS: H 1 m



### SHEETS

Code	Thickness (mm)	Roll (m <sup>2</sup> /box)	Price €/m <sup>2</sup>
EV10HFBL06	6	30	64,841
EV10HFBL10	10	20	94,512
EV10HFBL13	13	14	115,517
EV10HFBL19	19	10	164,113
EV10HFBL25	25	8	213,888
EV10HFBL32	32	6	252,251

The **SYSTEM COVER** covering is available for sheets and tubes.

Packaging dimensions: 108 x 54 x 54 cm - Packaging volume = 0,31 m<sup>3</sup>

### DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm

Key:  $D_i$  = inside diameter -  $D_{iD}$  = inside nominal diameter (Ref. Tubes) -  $d_D$  = Nominal thickness

Form of delivery	Length	Width	Thickness		Squareness	Inside diameter	
			Declared	Tolerance		$D_i \leq 100$	$D_i > 100$
Tubes	$\pm 1,5\%$	-	$d_D \leq 8$	$\pm 1$	3,0 mm	$D_{iD} + 1 \leq D_i \leq D_{iD} + 4$	$D_{iD} + 1 \leq D_i \leq D_{iD} + 6$
			$8 < d_D \leq 18$	$\pm 1,5$	-		
			$18 < d_D \leq 31$	$\pm 2,5$	-		
			$d_D > 31$	$\pm 3$	-		
Sheets	$\pm 1,5\%$	$\pm 2\%$	$d_D \leq 6$	$\pm 1$	3,0 mm/m (length/width)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$	-		
			$d_D > 19$	$\pm 2$	3,0 mm (thickness)		
Rolls	+ 5% - 1.5%	$\pm 2\%$	$d_D \leq 6$	$\pm 1$	3,0 mm/m (length/width)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$	-		
			$d_D > 19$	$\pm 2$	3,0 mm (thickness)		
Tapes	+ 5% - 1.5%	$\pm 2\%$	$d_D = 3$	- 0.1 + 1,5	-	-	-