

# IT-FLEX HF "HALOGEN FREE"

Technical data sheet

## MATERIAL

Black closed-cell flexible elastomeric foam (FEF).

## PRODUCT SPECIFICATION

Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.

## PRODUCT RANGE

Non-adhesive and adhesive tubes in lengths, in diameters from 10 to 114 mm and thicknesses from 13 to 32 mm.  
Sheets in rolls in thicknesses from 6 to 32 mm.  
Adhesive tapes with a thickness of 3 mm.

## PRODUCT APPLICATION

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.

## MAIN CHARACTERISTICS

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 TEMPERATURES</b> Max. temperature of transported fluids Min. temperature of transported fluids	+ 130 °C* - 50 °C	EN 14706 - 14707
<b>THERMAL CONDUCTIVITY λ</b>	At mean temp. of 0 °C ≤ 0,039 W/m•K At mean temp. of 40 °C ≤ 0,043 W/m•K	EN ISO 8497 - EN 12667
<b>WATER VAPOUR DIFFUSION FACTOR μ</b>	≥ 2000	EN 13469 - EN 12086
<b>REACTION TO FIRE</b>  USA, CANADA SWISS	EUROCLASS { Tubes thk. 6-32 mm - DL-s1,d0 Sheets thk. 6-25 mm and tapes - D-s2,d0 Sheets thk. 32 mm - E  UL Approved Flame Class HF 1  SHEETS (25 mm) RF3- TUBES RF3	EN - 13501 - 1  UL94, AEAI-VKF
<b>RAILWAYS</b>	HL 1/R1 (Low emission, low toxicity in the event of fire)	EN - 45545
<b>SHIPYARDS (MED)</b> Lloyds Register	Meets requirements	Directive 2014/90/EU (MED). IMO RES.HSC.307(88)
<b>CORROSION RISK</b>	Meets test requirements	EN 13468
<b>DIMENSIONAL TOLERANCES</b>	In accordance with table 1 - European Standard EN 14304	

\*For adhesive tapes and sheets: max. operating temperature 90 °C.  
For specific requirements, please contact our Technical Department.  
Storage of adhesive products: not exceeding one year.

All standards cited in this document are intended to be updated to the latest released version. The latest released documentation and specific certifications are available upon registration on our website at: [www.evocellmobius.it](http://www.evocellmobius.it)  
\*\*Please note that Evocell&Mobius insulation material is not designed to operate in direct contact with the transported fluid.

Also available with a mineral fiber fabric facing and black aluminum foil covering.  
External applications: HF elastomer must be protected during installation (IT FLEX TCA or VEC polymeric coating).  
It is the responsibility of the end user to verify the suitability of the product for the intended use, in relation to the specific conditions of use and installation.  
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