

# EUROBATEX<sup>®</sup> HF

EUROBATEX HF is a **halogen free** flexible expanded rubber foam (FEF) which conform to the European Standard EN 14304. CFC, HCFC, halogen and PVC-free insulation tubes, sheets and tapes for the thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications, especially wherever a **high standard of safety** is required (hospitals, pharmaceutical plants, public entertainment locations, airports, public offices, **ships and trains**).

Suitable for continuous use at **+130 °C**.

## APPLICATIONS FIELDS



Industrial



Refrigeration



Building



Marine



Heating & Plumbing



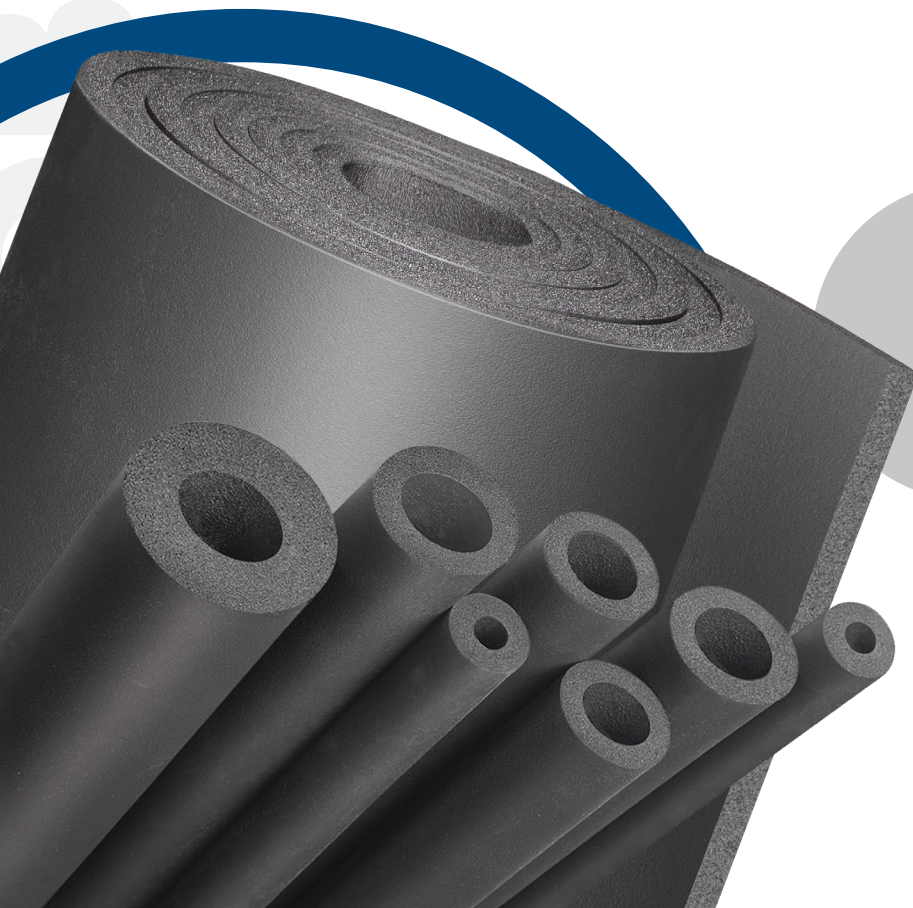
Railways



Air Conditioning



Oil & Gas



## EUROBATEX® HF



|                                       |   |
|---------------------------------------|---|
| <b>TYPE OF MATERIAL:</b>              | Black closed-cell flexible elastomeric foam (FEF) without halogens (Chlorine, Bromine, Fluorine) and PVC  |
| <b>PRODUCT RANGE:</b>                 | Tubes in pipe sections (also in self-adhesive version) with thicknesses from 13 mm to 32 mm and diameters from 10 mm to 139 mm.<br>Sheets in roll (also in self-adhesive version) with thicknesses from 6 mm to 32 mm.<br>Tapes with a thickness of 3 mm  |
| <b>FIELDS OF APPLICATION:</b>         | Thermal insulation of refrigeration and air conditioning services in commercial, industrial and domestic applications. Especially suitable for naval, rail and civil applications when high safety standards in case of fire are required   |
| <b>DIMENSIONAL TOLERANCES:</b>        | In accordance with the European Standard EN 14304   |
| <b>ENVIRONMENTAL INFORMATION:</b>     | Flexible and expanded CFC and HCFC-free rubber foam. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero).<br>Environmental Product Declaration: registration number EPDITALY0112, released on 23/01/2021, 5 years validity, UNCPD code 3623 |
| <b>ADDITIONAL INFORMATION:</b>        | Self-adhesive material: acrylate based adhesive coating reinforced with mesh structure. Protection liner made of polyolefin foil. Traces of silicon can be found on the foil protecting the self-adhesive coating   |
| <b>STORAGE CONDITIONS/SHELF LIFE:</b> | Store the material in a dry and clean environment at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored.<br>Self-adhesive products should not be kept in storage for more than one year                         |

| PHYSICAL PROPERTIES  | RESULT OBTAINED                                       |   | TEST METHOD   |
|--|---|---|---|
| <b>OPERATING TEMPERATURE RANGE*</b>                          | -45 °C +130 °C  |   | EN 14706 / EN 14707   |
| <b>THERMAL CONDUCTIVITY</b>                                  | At a mean temperature of +40 °C                       | $\lambda \leq 0,042 \text{ W/m}\cdot\text{K}$   | EN 12667 / EN ISO 8497  |
| <b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR</b>              | $\mu \geq 2000$                                       |   | EN 13469 / EN 12086   |
| <b>WATER ABSORPTION</b>                                      | < 0,1 kg/m <sup>2</sup>                               |   | EN 13472 / EN 1609  |
| <b>FIRE PERFORMANCE</b>                                      | <b>European Standard Euroclass</b>                    | Tubes: D <sub>L</sub> -s1,d0<br>Sheets ≤25 mm: D-s2,d0<br>Sheets >25 mm: E<br>Sheets for linear application1: D <sub>L</sub> -s2,d0<br>Tapes: D-s2,d0 | EN 13501-1  |
|  | <b>USA, Canada</b>                                    | UL Approved<br>Flame Class: HF-1  | UL 94<br>UL 746 A, UL 746 B   |
|  | <b>Swiss Reaction to Fire group</b>                   | Tubes: RF3<br>Sheets ≤25 mm: RF3<br>Sheets >25 mm: RF3 (cr)   | VKF Directive 13-15   |
| <b>RAILWAYS</b>  | HL-1/R1 (low emissions, low toxicity in case of fire) |   | EN 45545  |
| <b>SHIPYARDS (MED) TYPE APPROVAL: RINA, LLOYD'S REGISTER</b> | Meets test requirements                               |   | IMO Res. MSC.307(88);<br>IMO MSC/Circ. 1004 (MED 2014/90/EU Module B and D) |
| <b>ANTIMICROBIAL BEHAVIOUR</b>                               | No fungal and bacterial growth detected               |   | A.A.T.C.C. Test Method 30<br>ISO 22196                                      |
| <b>CORROSION RISK</b>  | Meets test requirements                               |   | EN 13468  |

\*NB: for applications at lower temperature please contact our technical department.

1: up to a maximum outer insulation diameter of 300 mm. Maximum insulation thickness available: 32 mm.

For self-adhesive sheets the maximum operating temperature standard is +90 °C. For applications at higher temperatures please contact our technical department.

For tapes the maximum operating temperature is +120 °C.

**System 3 CE Marking** in accordance with the European Standard EN 14304.

The product meets the requirements for the achievement of the Baubook and Eco-Bau classification.

For outside uses Eurobatex HF should be protected with Union Covering or Vec elastomeric paint.

Before installation, please refer to EUROBATEX HF's installation advices, available on our website (download area).

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

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# EUROBATEX® HF - HALOGEN FREE

## PIPE SECTIONS 2 m LENGTH

| Copper pipe |               | Steel pipe |     |       | Thickness 13 mm         |      | Thickness 19 mm         |      |
|-------------|---------------|------------|-----|-------|-------------------------|------|-------------------------|------|
| Ext. Ø mm   | Ext. Ø inches | Ext. Ø mm  | DN  | NPS   | Item No. thickness x ID | m/ct | Item No. thickness x ID | m/ct |
| 10          | 3/8           | 10,2       | 6   | 1/8   | 13 - 10EURHF*           | 172  | 19 - 10EURHF*           | 98   |
| 12          | 1/2           |            |     |       | 13 - 12EURHF*           | 162  | 19 - 12EURHF*           | 88   |
| 15          | 5/8           |            |     |       | 13 - 15EURHF            | 136  | 19 - 15EURHF            | 78   |
| 18          |               | 17,2       | 10  | 3/8   | 13 - 18EURHF            | 118  | 19 - 18EURHF            | 72   |
| 22          | 7/8           | 21,3       | 15  | 1/2   | 13 - 22EURHF            | 98   | 19 - 22EURHF            | 64   |
| 28          | 1 1/8         | 26,9       | 20  | 3/4   | 13 - 28EURHF            | 78   | 19 - 28EURHF            | 48   |
| 35          | 1 3/8         | 33,7       | 25  | 1     | 13 - 35EURHF            | 58   | 19 - 35EURHF            | 40   |
| 42          | 1 5/8         | 42,4       | 32  | 1 1/4 | 13 - 42EURHF            | 48   | 19 - 42EURHF            | 40   |
| 48          |               | 48,3       | 40  | 1 1/2 | 13 - 48EURHF            | 40   | 19 - 48EURHF            | 32   |
| 54          | 2 1/8         |            |     |       | 13 - 54EURHF            | 34   | 19 - 54EURHF            | 32   |
| 60          |               | 60,3       | 50  | 2     | 13 - 60EURHF            | 32   | 19 - 60EURHF            | 28   |
| 76,1        |               | 76,1       | 65  | 2 1/2 | 13 - 76EURHF            | 26   | 19 - 76EURHF            | 20   |
| 88,9        |               | 88,9       | 80  | 3     | 13 - 89EURHF            | 24   | 19 - 89EURHF            | 16   |
| 114         |               | 114,3      | 100 | 4     | 13 - 114EURHF*          | 16   | 19 - 114EURHF*          | 14   |
| 140         |               | 139,7      | 125 | 5     | 13 - 139EURHF*          | 12   | 19 - 139EURHF*          | 8    |

| Copper pipe |               | Steel pipe |     |       | Thickness 25 mm         |      | Thickness 32 mm         |      |
|-------------|---------------|------------|-----|-------|-------------------------|------|-------------------------|------|
| Ext. Ø mm   | Ext. Ø inches | Ext. Ø mm  | DN  | NPS   | Item No. thickness x ID | m/ct | Item No. thickness x ID | m/ct |
| 18          |               | 17,2       | 10  | 3/8   | 25 - 18EURHF            | 50   | 32 - 18EURHF            | 32   |
| 22          | 7/8           | 21,3       | 15  | 1/2   | 25 - 22EURHF            | 42   | 32 - 22EURHF            | 32   |
| 28          | 1 1/8         | 26,9       | 20  | 3/4   | 25 - 28EURHF            | 40   | 32 - 28EURHF            | 24   |
| 35          | 1 3/8         | 33,7       | 25  | 1     | 25 - 35EURHF            | 32   | 32 - 35EURHF            | 24   |
| 42          | 1 5/8         | 42,4       | 32  | 1 1/4 | 25 - 42EURHF            | 26   | 32 - 42EURHF            | 18   |
| 48          |               | 48,3       | 40  | 1 1/2 | 25 - 48EURHF            | 22   | 32 - 48EURHF            | 18   |
| 54          | 2 1/8         |            |     |       | 25 - 54EURHF            | 22   | 32 - 54EURHF            | 14   |
| 60          |               | 60,3       | 50  | 2     | 25 - 60EURHF            | 18   | 32 - 60EURHF            | 14   |
| 76,1        |               | 76,1       | 65  | 2 1/2 | 25 - 76EURHF            | 16   | 32 - 76EURHF            | 10   |
| 88,9        |               | 88,9       | 80  | 3     | 25 - 89EURHF            | 12   | 32 - 89EURHF            | 10   |
| 114         |               | 114,3      | 100 | 4     | 25 - 114EURHF*          | 10   | 32 - 114EURHF*          | 8    |
| 140         |               | 139,7      | 125 | 5     | 25 - 139EURHF*          | 6    | 32 - 139EURHF*          | 6    |

\*Based on minimum purchasing quantities  
Different thicknesses and diameters available on request.

**Pallet dimensions:**

120 x 210 x 276 cm  
Volume = 6,95 m<sup>3</sup>  
Box/pallet = 24

120 x 210 x 243 cm  
Volume = 6,12 m<sup>3</sup>  
Box/pallet = 21



**Packaging dimensions:**  
(volume = 0,27 m<sup>3</sup>)

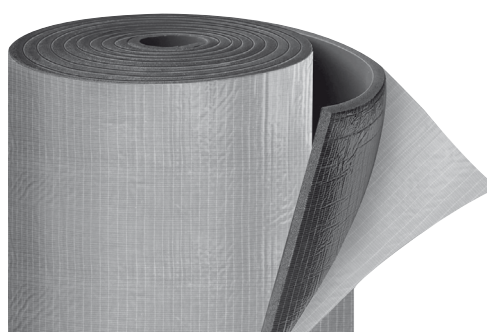
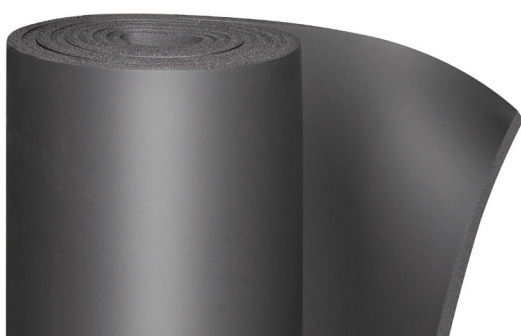


# EUROBATEX® HF - HALOGEN FREE CONTINUOUS ROLLS 1000 mm WIDTH

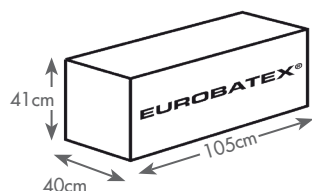
## SELF-ADHESIVE

| Item No.  | Thickness mm | m <sup>2</sup> /box |
|-----------|--------------|---------------------|
| 06EURHFPS | 6            | 15                  |
| 10EURHFPS | 10           | 10                  |
| 13EURHFPS | 13           | 8                   |
| 19EURHFPS | 19           | 6                   |
| 25EURHFPS | 25           | 4                   |
| 32EURHFPS | 32           | 3                   |

| Item No.      | Thickness mm | m <sup>2</sup> /box |
|---------------|--------------|---------------------|
| 06EURHFPS ADR | 6            | 15                  |
| 10EURHFPS ADR | 10           | 10                  |
| 13EURHFPS ADR | 13           | 8                   |
| 19EURHFPS ADR | 19           | 6                   |
| 25EURHFPS ADR | 25           | 4                   |
| 32EURHFPS ADR | 32           | 3                   |



**Packaging dimensions:**  
(volume = 0,17 m<sup>3</sup>)



**Pallet dimensions:**

120 x 210 x 217 cm  
Volume = 5,47 m<sup>3</sup>  
Box/pallet = 30



# EUROBATEX® HF - HALOGEN FREE SELF-ADHESIVE TAPE

| Item No.    | Description                                | pcs/ct |
|-------------|--|--------|
| FPX 15 R HF | thickness 3 mm x 50 mm width - 15 m length | 12     |



# CNX S ADHESIVE

| Item No.  | Description                        | pcs/ct |
|-----------|------------------------------------|--------|
| CNX 850 S | 850 g - 1000 ml tin                | 12     |
| CNX 425 S | 425 g - 500 ml tin                 | 24     |
| CNX 200 S | 200 g - 225 ml tin including brush | 24     |



## THERMAL INSULATION PRODUCTS FOR BUILDING EQUIPMENT AND INDUSTRIAL INSTALLATIONS. FACTORY MADE FLEXIBLE ELASTOMERIC FOAM (FEF) PRODUCTS

### Dimensional tolerances specified by the European product Standard EN 14304

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



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