

Technical specification for thermal insulation of piping.

The piping will be insulated by means of sleeves in Polyethylene cross-linked foam, with closed cells structure, self extinguishing – with external finishing in plastic metallized film (article Trocellen ISOCOMPACT AL CL1 or approved equivalents).

The complex is realised by a process certified according to ISO 9001, the final inspection are carried out according to ISO 7214.

The product complies with the following standards / directives:

Fire reaction:

- UNI 8457 – UNI 9174 Class 1 (Italian homologation according to the law 26.6.84)

Smokes:

- Toxicity and opacity - NF F 16-101: Class F2

Hazardous Substances:

- RoHs compliant (EU Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment 2002/95/EC).
- Contains no fibres; is non-toxic, formaldehyde-free, and odourless
- Chlorine-free.

Thermal Insulating properties:

- Density (ISO 845): 30 kg/m³
- Thermal conductivity (EN12667, ASTM C177):
 - At 0°C 0,0344 W/mK
 - At 40°C 0,0372 W/mK
- Water vapour diffusion coefficient (EN 12086, DIN 52615): > 12.000
- Closed cell structure: long last properties.
- Water absorption after 28 days (ISO 2896): < 3% Volume.
- Max service temperature: -80°C ÷ +120°C

Installation.

Apply the insulating sleeve on the pipe, leaving some space enough for welding: during this operation take care not to damage the insulating material, any eventual damaged zone must be properly repaired. At the end of the installation, complete the insulation with coupling sleeves, elbows, bends and tees, cutting the insulating sleeve and inserting where required. Cut parts and joints have to be joined using the recommended glue, to avoid any thermal bridge.

Complete the installation by means of the proper adhesive tape with AL CL1 finishing.

The free edges of the tapes must be fixed with glue.

A movie is available with direct explanation about how to realize the insulation of bends and tees.