

PU FOAM POLYURETHANE FOAM



District heating pipes



Preinsulated bonded pipe systems for directly buried hot water networks. It is a three layers pipe assembly of steel service pipe, due to the porous structure and the low conducting gases trapped in the cells of the foam.

Thermal insulation



can be interpreted as an economically and environmentally cost or





Application



Internal lining

Applicability - Limitless amount



SMALL AND LARGE PIPES



















Inspection & Testing

In our internal laboratory, we perform all the tests and inspections during all the project's phases, carried out with NACE certified staff.

Coating typical properties

Yeld strength: <19 MPA according to EN ISO 6259 Trasversal resistivity (23°C): >10^17 Ωcm according to DIN 53482

Coating capacity

Diameter from 1/2" to 120" Indefinite maximum unit lenght Maximum unit weight 15,000 kg

JOINTS AND/OR CUSTOM PIECES

(Bends, tees, reducers, flanges, etc.) Maximum **size** 3.0 x 3.0 x 13.5 meters Maximum unit weight 15,000 kg Maximum **thickness** of the coating 3,5 mm











POLYURETHANE FOAM

FUSION BONDED EPOXY

The cleaned metal part is heated to the recommended FBE powder application temperature



PU FOAM INJECTION

Polyurethane foam is injected at the right density to fill the gap between the pipe and the polyolefin jacket





The steel surface is thoroughly cleaned and blasted



JACKETING

PE jacket preparation. In case of bends the jacket is cut to be folded around and perfectly fit the shape



SHIPMENT PREPARATION

Final inspection is carried out in our internal laboratory when the goods are fully produced. Then packed and in all respects ready for shipment



GENERAL TESTING

These are merely approximate values adjustable according to clients' requirements.

PROPERTY	TEST DESCRIPTION	TYPICAL VALUES
Thermal conductivity (23°C)	DIN 52612	0,38 W/m°C
Elongation at break	EN ISO 6259	>350%
Oxydation induction time	EN 728	>20min at 200°C
Hydrostatic strength	UNI EN 921	>170h at 80°C - 3.0MPa
Final density	ISO 1183	>950 Kg/m^3









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