

Type of Material	Flexible elastomeric foam insulation with significantly high percentage, 98.5%, of closed - cells, available with ISOPIPE TC Insulation and SOLAR protective Covering in White and Black Colour, single or twin, with or without cable.	
Product Range	Tubes in coils section with thicknesses from 9 mm to 19 mm and diameters from 12 mm to 35 mm.	
Fields of Application	Thermal insulation for refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications.	
Dimensional Tolerances	In accordance with the European Standard EN 14304 table1.	
Environmental Information	Flexible and expanded rubber foam free of CFC and HCFC	
Storage & self-time	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight. Self-adhesive tapes, self-adhesive sheets, self-adhesive tubes, self-adhesive rolls: 1 year	

Technical Specifications of the insulation

Properties	Technical Data	Test Methods	
Thermal Conductivity (λ)	$\frac{-20^{\circ}\text{C} - 0.031 \text{ W/mk}}{0^{\circ}\text{C} - 0.033 \text{ W/mk}}$ $\frac{20^{\circ}\text{C} - 0.035 \text{ W/mk}}{30^{\circ}\text{C} - 0.036 \text{ W/mk}}$	EN 12667	
Permeability (µ)	≥10000	EN 13469, EN 12086	
Operating Temperatures (°C)	-50°C to +110°C	EN 14707 EN 14706	
Fire Rating (FR)	Euroclass E	EN 13501-1	
UV Resistance	Very good	ISO 4892-2	
Weather Resistance	Very good	ASTM D 471	
Oil & Grease Resistance	Very good	ISO 4892-2	

Technical Specifications of the external covering

operties Technical Data		Test Methods	
Thickness of film	< 0.40mm: ±0.1mm	DIN 53370	
Colour of SOLAR Film	White,Black		

Technical Specifications of the sensor cable

Conductor Nominal Cross-Sectional Area	External Diameter (Max.)	Net Weight (Approx.)	Insulation Thickness
mm ²	mm	Kg/Km	mm
2 x 0.75	3.2 x 6.4	30	0.8



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Technical Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH Technical Specifications of the INOX Flexible Pipe AISI-316L

DN	Internal diameter	Outer Diameter	Tolerance	Minimum Bending Radius	Nominal Bending Radius	Operation Pressure	Nominal Pressure (PN)	Operating Temperatures
	mm	mm	mm	rmin (mm)	rn (mm)	P1 (bar) 20°C/ SF3	DIN EN ISO 10380/ SF4	°C
12	11.8	15.8		20	165	21	16	-270°C to +700°C
16	16.6	21.4	0.2	25	195	13	10	
20	20.9	26.4		30	225	13	10	
25	25.1	31.8		35	260	8	6	

Technical Specifications of the Unaveld PE

External Diameter	Internal Diameter	Thickness	Meters/coil	
Polyethylene 5 Layer Pipe				
Φ16	12 mm	2 mm	100 m	
Φ18	14 mm	2 mm	100 m	
Φ18	13 mm	2,5 mm	100 m	

Technical Characteristics	
Maximum Operating Temperature	+95°C / +110°C (1 year)
Operating Conditions for Heating Installations (Class A. Class 5)	6 bar at +95°C
Operating Conditions for Healing Installations (Class 4, Class 5)	with minimum lifetime 50 years
Operating Conditions for Hot Water Supply Installations	10 bar at +60°C
(Class 1, Class 2)	with minimum lifetime 50 years
Thermal Conductivity Coefficient	0,04 w/mk
Linear Expansion Percentage	0.3% at +50°C
	0.7% at +90°C
Oxygen Permeability	0.01 g/m ³ d (According to DIN 4726)
Pardius	Φ 6-18 diameter pipe x 5,
kaalus	Φ 18-32 diameter pipe x 8

Technical Specifications of the Unaveld PERT-AL-PERT

External Diameter	Thickness	Aluminum Thickness	Meters/coil	
PER	T-AL-PERT Pipe, Co	il, in White Colour*		
Φ16	2 mm	0,20 mm	100 m	
Φ18	2 mm	0,25 mm	100 m	
Φ20	2 mm	0,25 mm	100 m	
Φ20	2,5 mm	0,25 mm	100 m	
Φ26	3 mm	0,30 mm	50 m	
Ф32	3 mm	0,50 mm	50 m	
PERT-AL-PERT Pipe, Coil, in Black Colour*				
Φ16	2 mm	0,25 mm	100 m	



ISOSOL®

Technical Data Sheet

to Annex II to	REACH - Regulation	2020/878 and	to Annex II	to UK REACH

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH				
Operating Temperatures (Maximum / Momentarily)	+95°C / +100°C			
Operating Pressure	10 bar at +95°C20 bar at +5°C			
Lifetime	50 years			
Thermal Conductivity Coefficient	0.43 W/mK			
Linear Expansion Coefficient	0.026 mm/mK			
Internal Harshness	0.007mm			
Oxygen Permeability	10,00%/ mg (According to DIN 4726)			
Adhesion Properties between Layers	Adhesion >80 N/cm ²			
Radius (R)	Nominal Diameter DN x 6			

The mentioned values are these which have been measured in our laboratory, under typical conditions.

They can be modified without prior notice. You are kindly requested to assert their validity before any special use.



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