

# ISOPIPE<sup>®</sup> UV

## INSULATION PRODUCTS



# ISOPIPE<sup>®</sup> UV

Patent No 1004469 (2002)

ISOPIPE UV combines the effective ISOPIPE elastomeric insulation coated with a specially developed polymer membrane that offers:

**UV protection, Enhanced Vapour Barrier, and Tough Abrasive cover forming a uniform insulation resulting in:**

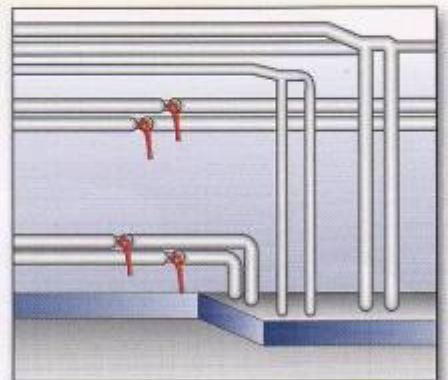
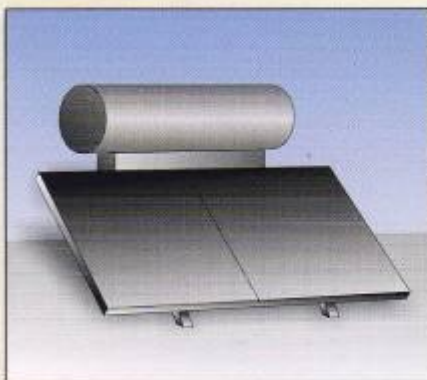


- a) Increased steam diffusion resistance ( $\mu$ ) more than 80%.
- b) Significantly prolonging the insulating performance and thermal conductivity ( $\bar{\alpha}$ ) by more than 10 times
- c) Protecting the elastomeric body against scratches, abrasions and increasing wear resistance.
- d) More than Five years estimated UV resistance of membrane.
- e) Aesthetic, tidy, bright white color (other color available upon request)

ISOPIPE UV addresses the need of UV protection particularly for external applications, where the insulation material is exposed to direct sunlight and other weather conditions.

ISOPIPE's added Protection removes the need to paint, tape or cover the primary insulation, saving time, labor, and untidiness of applying an external barrier and also save the cost of the applying material.

ISOPIPE UV is ideal for piping used in, External Solar heaters and Hot-water Boilers, Air Conditioning (split and central units), Central Heating, refrigerating applications (chilled water), external plumbing (hot and cold pipelines), ventilation units and also marine applications. Also, the bright white colour assists to create and monitor a sanitary and hygienic environment, for example in food processing areas it facilitates detection of mold or grime on the lines and is easy to clean.



## UV Resistance



ISOPIPE UV, is incorporated with an external membrane, that has more than 5-year UV resistance under Mediterranean climatic condition. Milder conditions can expect much more protection.

## Fire Rating



ISOPIPE UV, will not support fire, will not drip flaming particles, has a low heat and limited smoke release. Isopipe UV insulation provides a safe insulation.

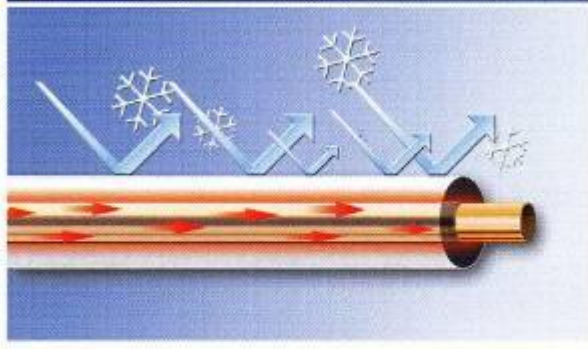
## ( $\bar{\alpha}$ )



The ISOPIPE UV protective membrane assures the longevity and consistency of thermal insulating performance.

ISOPIPE UV has  $0\text{ }^{\circ}\text{C} = 0,035\text{ W}/(\text{m}^{\circ}\text{K})$   
and  $40\text{ }^{\circ}\text{C} = 0,039\text{ W}/(\text{m}^{\circ}\text{K})$ .

## ( $\mu$ )



Isopipe UV, inherent structure and material, enhanced with an external polymer vapour barrier, offers a very high resistance to water vapor transmission, ensuring the long term performance and effectiveness of the Insulation.  $\mu > 7000$

## Packing & Tolerance List

External Pipe Diameter		Internal Diameter Min—Max	Insulation Thickness 9mm ( 3/8" )			Insulation Thickness 13mm ( 1/2" )			Insulation Thickness 19mm ( 3/4" )		
Cu mm	Cu Inch		Size	Metres carton	Lgths. carton	Size	Metres carton	Lgths. carton	Size	Metres carton	Lgths. carton
6	1/4"	7-8	9x6	288	144	-	-	-	-	-	-
10	3/8"	11-12	9x10	180	95	13x10	130	65	-	-	-
12	1/2"	13-14	-	-	-	13x12	120	60	-	-	-
15	5/8"	16-17	-	-	-	13x15	100	50	19x15	60	30
18	3/4"	19-20	-	-	-	13x18	90	45	19x18	60	30
22	7/8"	23-24	-	-	-	13x22	70	35	19x22	44	22
28	1 1/8"	29-30	-	-	-	13x28	60	30	19x28	40	20
35	1 3/8"	36-37	-	-	-	13x 35	44	22	-	-	-

• Other dimensions are produced upon request • Standard length 2 meters ( $\pm 1,5\%$ ), up to 5% of total carton content may be in 1 meter length • Standard carton size ( 210 x 47 x 21 ) cm • Packing capacities are subject to alterations

## TECHNICAL DATA SHEET

Composition of insulation	NBR
<b>Film composition</b>	Vinyllic copolymer
Thickness	min 0,10 mm
Elongation at break	> 100%
Tensile strength	6,25 Mpa
<b>Temperatures</b>	
Min. temperature	-40 °C
Max. Temperature	+ 105 °C
<b>Density of elastomer</b>	(60-75) kgr/m <sup>3</sup>
<b>Thermal conductivity (λ)</b>	
at 0°C	0,035 W/(m*K)
at +20°C	0,036 W/(m*K)
at +40°C	0,039 W/(m*K)
<b>Fire rating</b>	B2 - DIN 4102 (Germany)
<b>Noise reduction (Acoustic)</b>	up to 32DB
<b>Resistance to U.V. and weather</b>	<b>EXCELLENT</b>
<b>Food contact</b>	approved
<b>Resistance to oil and grease</b>	Very good
<b>Permeability (μ)</b>	
Steam diffusion resistance	≥ 7000

The written figures are these that 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 usage.

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