

## JUMBOLAG® PIPE INSULATION

### Product Description

Jumbolag® insulating tubes are made of 100% closed cell polyethylene foam. It has a low water vapour transmission rate making it excellent in insulating both cold and hot water pipes. Jumbolag is used to retard against heat gain and prevent condensation on cold water plumbing and has an operating temperature of between -40°C and +95°C. Its closed-cell structure allows it to reduce unwanted heat loss or heat gain, decrease plumbing noise, prevent condensation and corrosion and maximizing energy saving.

Our tubes are used on hot and cold water lines, refrigeration lines, air conditioning lines and waste water pipes. For severe UV exposure (rooftop applications), cladding should be used. Jumbolag® pipe insulation comes in both reflective finish and plain finish, and is available in a full range of diameters to suit Copper, PVC, PPR, Galvanised Steel and Stainless Steel pipe sizes.

### Benefits

- Excellent thermal properties – leading to energy saving
- Resistant to moisture vapour flow – prevents condensation
- Flexible
- Durable (long lifespan)
- Easy to install
- Dampening of noise
- Suitable for insulation of buried pipes
- Chemically inert
- Free from synthetic mineral fibres
- Resistant against mould, mildew and bacteria

### JUMBOLAG PIPE PHYSICAL PROPERTIES

| <u>SPECIFICATIONS</u>                  | <u>VALUES</u>  | <u>TEST METHODS</u>           |
|--|--|-------------------------------|
| Material                               | Flexible, closed cell polyethylene foam                |                               |
| Thermal Conductivity                   | 0.0293W/mk<br>0.203 Btu-in/hr-ft2 -°F                  | ASTM D3575, Suffix V          |
| Operating temperature                  | -40°C to +95°C   |                               |
| Density                                | 25 kg/m <sup>3</sup>                                   | ASTM D3575, Suffix W Method B |
| Weatherability                         | Very good  |                               |
| Fire rating                            | Fire retardant   |                               |
| Flame spread and smoke developed index | 25/50  | ASTM 84                       |
| Water Vapour Permeability              | 0.05%g/cm <sup>2</sup> .Day                            | ASTM D3575, Suffix L          |
| Water Absorption                       | 0.02mg/cm <sup>2</sup>                                 |                               |
| Chemical resistance                    | Resists common acids, chemicals and fuels<br>Non toxic |                               |

## JUMBOLAG® PIPE SPECIFICATIONS

### JUMBOLAG INSULATION 3/8" WALL THICKNESS

| Pipe covering size<br>2m (6.5 ft)<br>LENGTH | Copper tubing/ CPVC |                | PPR Pipes | Iron Pipes / PVC |
|---|---------------------|----------------|-----------|------------------|
|   | Nominal Size        | Outer Diameter |           |                  |
| 3/8" ID                                     | 1/4"                | 3/8"           | —         | —                |
| 1/2" ID                                     | 3/8"                | 1/2"           | —         | 1/4"             |
| 5/8" ID                                     | 1/2"                | 5/8"           | —         | 3/8"             |
| 3/4" ID                                     | 5/8"                | 3/4"           | —         | —                |
| 7/8" ID                                     | 3/4"                | 7/8"           | 20mm      | 1/2"             |
| 1 1/8" ID                                   | 1"                  | 1 1/8"         | 25mm      | 3/4"             |
| 1 3/8" ID                                   | 1 1/4"              | 1 3/8"         | 32mm      | 1"               |
| 1 5/8" ID                                   | 1 1/2"              | 1 5/8"         | 40mm      | 1 1/4"           |
| 1 1/2" IPS                                  | —                   | —              | —         | 1 1/2"           |
| 2 1/8" ID                                   | 2"                  | 2 1/8"         | 50mm      | —                |
| 2" IPS                                      | —                   | —              | 63mm      | 2"               |

### JUMBOLAG® INSULATION 1/2" WALL THICKNESS

| Pipe covering size<br>2m (6.5 ft)<br>LENGTH | Copper tubing/ CPVC |                | PPR Pipes | Iron Pipes / PVC |
|---|---------------------|----------------|-----------|------------------|
|   | Nominal Size        | Outer Diameter |           |                  |
| 3/8" ID                                     | 1/4"                | 3/8"           | —         | —                |
| 1/2" ID                                     | 3/8"                | 1/2"           | —         | 1/4"             |
| 5/8" ID                                     | 1/2"                | 5/8"           | —         | 3/8"             |
| 3/4" ID                                     | 5/8"                | 3/4"           | —         | —                |
| 7/8" ID                                     | 3/4"                | 7/8"           | 20mm      | 1/2"             |
| 1 1/8" ID                                   | 1"                  | 1 1/8"         | 25mm      | 3/4"             |
| 1 3/8" ID                                   | 1 1/4"              | 1 3/8"         | 32mm      | 1"               |
| 1 5/8" ID                                   | 1 1/2"              | 1 5/8"         | 40mm      | 1 1/4"           |
| 1 1/2" IPS                                  | —                   | —              | —         | 1 1/2"           |
| 2 1/8" ID                                   | 2"                  | 2 1/8"         | 50mm      | —                |
| 2" IPS                                      | —                   | —              | 63mm      | 2"               |
| 2 5/8" ID                                   | 2 1/2"              | 2 5/8"         | —         | —                |
| 2 1/2" IPS                                  | —                   | —              | 75mm      | 2 1/2"           |
| 3" IPS                                      | —                   | —              | 90mm      | 3"               |
| 4" IPS                                      | —                   | —              | 110mm     | 4"               |

## JUMBOLAG® PIPE SPECIFICATIONS

| JUMBOLAG® INSULATION ¾ " WALL THICKNESS        |                                 |                                 |           |                                 |
|--|---------------------------------|---------------------------------|-----------|---------------------------------|
| Pipe covering<br>size<br>2m (6.5 ft)<br>LENGTH | Copper tubing/ CPVC             |                                 | PPR Pipes | Iron Pipes<br>/ PVC             |
|  | Nominal Size                    | Outer Diameter                  |           |                                 |
| 2" IPS   | —                               | —                               | 63mm      | 2"                              |
| 2 <sup>5</sup> / <sub>8</sub> " ID             | 2 <sup>1</sup> / <sub>2</sub> " | 2 <sup>5</sup> / <sub>8</sub> " | —         | —                               |
| 2 <sup>1</sup> / <sub>2</sub> " IPS            | —                               | —                               | 75mm      | 2 <sup>1</sup> / <sub>2</sub> " |
| 3" IPS   | —                               | —                               | 90mm      | 3"                              |
| 4" IPS   | —                               | —                               | 110mm     | 4"                              |
| 5" IPS   | —                               | —                               | —         | 5"                              |
| 6" IPS   | —                               | —                               | 160mm     | 6"                              |

Jumbolag® Pipe Insulation, 1" wall thickness is available for 4", 5" and 6" pipe sizes.

**Disclaimer:** The technical information provided on this data sheet is for your guidance and usage. The information is based on JUMBO CHEM (K) LTD experience and research and is believed to be reliable. As we have no control over conditions in which the product is used, stored, or otherwise handled, the above information does not constitute a warranty. Buyers must assume responsibility for the suitability of the product for their purposes. The product specifications may be modified BY JUMBO CHEM (K) LTD from time to time, and without PRIOR notice, based on continuous product development.