

Technical Catalogue

UNIVERSAL INDUSTRIES



Pre-insulated pipes for industrial applications







Why Pre Insulated Pipes?

Pre-insulated piping systems provide operators and owners With many advantages, over traditional field-applied insulation solutions.

- Greater thermal efficiency,
- · Excellent mechanical performance,
- Lower installation costs,
- High quality factory applied materials result in significantly lower total installed and life-cycle costs.

As a result, there has been increased use of pre-insulated piping systems in various industries, such as oil & gas, district energy, environmental, and industrial. These advantages and along with having an expertly designed pre-insulated pipe system, are why you should specify *UNIVERSAL INDUSTRIES MAKE*



Features of Pre Insulated Pipes

- Operating temperatures from -320 °F (-196 °C) up to 250 °F (121 °C)
- Typical compressive strengths up to 90 psi (620 kPa) to prevent damage during construction and operation.
- Higher compressive strengths are available
- Typical thermal conductivity down to 0.16 Btu in/hr·ft2·°F(0.023 W/m- °C)
- Versatile system fabricated in various thicknesses and densities to meet the overall heat transfer design parameters

Whar are Pre-Insulated Pipes?

A Metered dose of poly urethane foam (PUF) is injucted in the factory, in the angular space between MS pipe (Chilled water pipe) and the outer jacket. The PUF expands and, upon setting, forms a homogenous insulation around the carrier pipe. the combination of pipe, insulation and jacket together is called Pre-Insulated pile.





Specifictions:

1) Insulation

Material : Polyurethane Foam

Thickness: 25mm onwards to suit application

Density: Standard 36 kg/m3. Other densities on specific

request.

2) Fluid Temp. Range : -20°C to 120°C

3) Sizes : For MS Pipes 19mm onwards

4) Pre-Insulated Pipe Length : 6m

5) Outer Jacket

Metallic : GI / AL / Stainless Steel

Non-Metallic : HDPE / PVC



Field Jointing Methods:

3 STAGE WELDING OF MS PIPES







GI Cladding Work Activity





Puff Chemical Injuction Activity







HDPE Sheet Soldering Work Activity







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South Asia ISO 9001 : 2015 Certificate No. 99 100 22850

ISO 9001: 2015

CERTIFICATE The Certification Body of TOV SUD South Asia Private Limited conflicts with Asia Private Limited and Supply of HVAC Ducks, Grilles & Diffusers, Pre Insulated Pipes & Accessories The certificate is valid from 2022-12-12 und 2022-12-11 The certificate is valid from 2022-12-12 und 2022-12-11 The certificate is valid from 2022-12-12 und 2022-12-12 The certificate is valid from 2022-12-12 und 2022-12-12 To conflict Registration No. 99 100 22850 Date of Invitation Registration No. 99 100 22850 Date of Invitation Conflicts Registration No. 99 100 22850 Date of Invitation Conflicts Registration No. 99 100 22850 Date of Invitation Pipe Registration No. 99 100 22850 Date of Invitation Pipe Registration No. 99 100 22850 Date of Invitation Registration No. 99 100 22850 Date of Invitation Registration No. 99 100 22850 Date of Invitation No. 99 100

CPWD APPROVED PRE INSULATED PIPES



CIPET TEST CERTIFICATE



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