ONE STOP SOLUTION FOR THERMAL INSULATION MATERIAL SUPPLIES

Metal Jacketing, Insulation Materials, Accessories, Mastics/Sealants, Custom Design Pipe Sectionals and Slabs

SINGAPORE • MALAYSIA • AUSTRALIA • UAE • INDIA • INDONESIA
ABOUT TRAVERSE

Traverse International Pte Ltd is incorporated in Singapore in 2006 and grown as a one-step partner for all the Thermal Insulation Material needs like Metal Jacketing, Insulation Material, Accessories, Mastics, Sealants and Custom Design Pipe Sections and Slabs. We have fully stocked warehouses close to our clients in Singapore, Malaysia, Australia, UAE & India. The company represents various international brands in these markets.

The division has also ventured into Fabricating Customized Pipe Sectionals, Slabs, Curved Segments, Elbows, Tees and Pipe Supports for various size of Polyurethane (PU), Polyisocyanurate (PIR), Phenolic, Cellular Glass and Mineral Wool.

We have “ESCO-Profilematic III” advanced wire cutting machines in Singapore, Malaysia & UAE

CERTIFICATIONS

[Images of various certificates]

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CLADDING & METAL JACKETING

Stainless Steel Coil/Sheets

- **Grade:** SS304, SS304L, SS316, SS316L
- **Standard:** AISI, ASTM, JIS, GB, EN, DIN
- **Surface Finishes:** 2B, 2D, BA, No.1, No.4, No.8, 8K, Mirror, Checkered, Stucco Embossed, Cross Crimp, Corrugation etc
- **Thickness:** 0.25mm to 3mm  **Width:** 914mm to 2000mm

**Moisture Retarder**
It also comes with a minimum 3mil(75microns) thick Polysurlyn* moisture retarder or 40 pound Kraft paper with 1mil(25 microns) polyethylene which is heat laminated to inner surface of Stainless Steel. These moisture retarders reduce potential galvanic corrosion in an insulation system.

Aluminium Coil/Sheets

- **Grade:** 1100, 1050, 1060, 3003, 5005
- **Hardness:** H12, H14, H16, H18
- **Surface Finishes:** 2B, 2D, BA, No.1, No.4, No.8, 8K, Mirror, Checkered, Stucco Embossed, Cross Crimp, Corrugation etc
- **Standard:** ASTM B-209
- **Width:** 914mm, 1000mm, 1220mm
- **Thickness:** 0.25mm to 3mm  **Width:** 914mm to 2000mm

**Moisture Retarder**
It also comes with a minimum 3mil(75microns) thick Polysurlyn* moisture retarder or 40 pound Kraft paper with 1mil(25 microns) polyethylene which is heat laminated to inner surface of Aluminium.

Aluminized Steel Coils

- **Grade:** Type1, Type2
- **Standard:** ASTM A463
- **T2:** Commercially Pure Aluminium (300g/m2 both sides)
- **T1:** Aluminium with Silicon (240-270g/m2 on both sides)
- **Formability:** Corrugated, Roll Formed
- **Thickness:** 0.5mm to 1.5mm  **Width:** 1000mm/1219mm
- **Application:** Fire Resistance, Insulation Jacketing

Aluzinc Coils/Sheets

- **Grades:** D, DD, LHQ & Skin Passed
- **Standard:** EN10142, EN10143, ASTM A653/ASTM A 924 CQ
- **Aluzinc Coating:** AZ40 to AZ200 GSM
- **Thickness:** 0.145mm to 1.2mm
- **Surface Treatment:** Chromated and dry with regular/minimized spangles
- **Colour:** As per RAL specification/customer requisition
- **Origin:** India, Korea, Taiwan

Pre-Painted/Galvanized Coils

- **Grades:** Full hard, CQ, D/DD/LFQ & Structural
- **Standard:** IS277, JIS G 3302, ASTM A653, AS1376, EN10142, EN10147, DIN17162 and ES C.D7.001
- **Thickness:** 0.2mm to 2.0mm  **Width:** 914mm to 1500mm

**Paint Specification**
- **Primer:** Epoxy
- **Top Coat:** RMP, SMP, PVDF, SDP
- **Backer Coat:** Epoxy
- **Colour:** As per RAL specification/customer requisition

* Surlyn is Dupont Trade Mark
Polyurethane(PU)/Polyisocyanurate(PIR)

Low Thermal Conductivity
The thermal conductivity rating of CORAFOAM® rigid Polyurethane/Polyisocyanurate foams (PIR/PUR) is the lowest value among expanded materials for insulation.

Strength
CORAFOAM® Polyurethanes and Polyisocyanurates provide the best balance of physical-mechanical properties and density.

Range of Service Temperatures
Rigid PIR/PUR foams are suitable for applications in a wide range of temperatures from extreme cryogenics (-200°C/-328°F) up to hot water (+120°C/+248°F); some materials can even withstand +205°C (+400°F).

In-House Cutting Facility
ESCO’s ProfileMatic III CNC profile saw is the third generation of ESCO’s highly popular and successful line abrasive wire contour cutting machine to fabricate

Pipe Sectionals  Elbow Sectionals
Slabs  Tee Sectionals
Grooved Sectionals  Pipe Supports
Curved Segments

CFC Free Rigid Foam most efficient, high performance insulation material, enabling very effective energy savings with minimal occupation of space.

Density: 35kg to 60kg
Facing: Plain, Aluminium Foil, Mylar Foil(12/25/12 and 25/50/25)
High Density: 80kg to 800kg

* CORAFOAM – Product of Dune, Italy

Phenolic
The Superior Insulation Foam
Cost effective because lower thermal conductivity facilitates usage of lesser thickness of highly company reputed foam for the same level of insulation. A wide service temperature range between -196°C to +130°C makes highly company reputed foam ideal for low temperature and cryogenic applications. It can be effectively used on LSHS, fuel oil and low pressure steam and hot water lines.

Density: 35 Kg/m³ - 60 Kg/m³
Standard: ASTM C1126
Facing: Plain, Aluminium Foil, Mylar Foil(12/25/12 and 25/50/25)
Foam Glass/Cellular Glass

Cellular Glass insulation is rigid, lightweight material containing millions of completely sealed glass cells. This unique cell structure is inherently water resistant and provides a highly effective vapour barrier (will not absorb flammable liquids or vapours).

Density: +/- 115 Kg/m³
Standard: ASTM C552
Temperature Range: -450°F (-268°C) to 900°F (482°C)
Special Requirement: Antabrasive, bitumen, asphalt coating etc., Fiber CFC and HCFC Free

Mineal Wool

Our mineral wool products take various forms: Rolls, Slabs, Pipe Sectional or Loose Wool. We have constantly improved their qualities and performances, better mechanical and thermal performances, softer touch, reduced emissions of volatile compounds, improved fire behaviour.

Density: 60kg/m³ -150Kg/m³
Standard: ASTM C547, IS 9842
Working Temperature Range: Upto 740°C
Leachable Chloride Content: Less than 10ppm, ASTM C871 & ASTM 692
Fire Safety Performance: IS 3144, BS 476 (part 4), ISO 1182 and ASTM E136
Acoustic Performance: Tested in accordance to ASTM C423
Facing: Unfaced or with facing of Glass Reinforced Aluminium Foil (ALG) Foil Scrim Kraft (FSK), Black Fiber Glass Tissue (BGT)

Perlite & Calcium Silicate

Perlite – Pipe and block insulation is an excellent product for application on high temperature piping and equipment because of its compressive strength, low thermal conductivity and corrosion inhibiting properties.

Density: 220 Kg/m³
Standard: ASTM C533, ASTM C610, ASTM C165, ASTM C177
Temperature: Upto 650°C
Thickness: 25mm – 100mm
Calcium Silicate is commonly used as another safe alternative to asbestos for high temperature insulation materials. Industrial grade piping and equipment insulation is often fabricated from calcium silicate.

Density: 220 Kg/m³ Standard: ASTM C533, ASTM C795

Cellulose Pyrogel/Pyrogel

Most effective high temperature insulation material.

Density: 12.5 lb/ft³
Standard: ASTM C1728, TYPE III, 1A
Temperature: Upto 650°C
Thickness: 5mm and 10mm

Fiberglass/Glass Wool

Glasswool Blankets & Pipe Sections

Density: 12 Kg/m³ - 65 Kg/m³
Standard: BS 2972, BS 476
Temperature: -195 – 230°C
Thickness: 25mm – 100mm
Facing: FSK, Aluglass, Black Glass Fabric
Application: Thermal and Acoustic insulation of HVAC ducts and similar applications

Armaflex

Fiber-free flexible elastomeric insulation for reliable protection against condensation, mold and energy loss.

Density: 50 Kg/m³ - 65 Kg/m³
Standard: ASTM C177, ASTM C518
Temperature: -50 – 150°C
Thickness (Tubes): 13mm, 19mm, 25mm
Thickness (Sheets): 10mm, 13mm, 19mm, 25mm
Wire Mesh

Material: SS304, SS316, Aluminium
Type: Square Welded, Expanded Metal
Wire Diameter: 0.7mm to 3mm
Mesh: 1/2" to 4"
Width: 914mm, 1000mm, 1219mm
Finish: Plain, Galvanised Bright

Flat Bars

Material: SS304, SS316, Mild Steel, Carbon Steel, Aluminium
Thickness: 2mm to 13mm
Width: 10mm to 250mm
Length: 4m, 5m, 6m
Finish: Plain, Hot-Dip, Galvanized No.1, 2B

Corrugated Sheets

Material: SS304, SS316, Aluminium, Aluminized Steel
Surface: Plain, Painted with PSMB
Corrugations: 32mm & 64mm deep corrugated
Standard: ASTM
Thickness: 0.25mm to 1mm

Perforated Sheets

Material: Mild Steel, SS304, SS316, Aluminium
Thickness: 0.3mm to 12mm
Length: 1000mm/1200mm/1500mm
Hole Pattern: Round, Square, Slotted
Hole Size: 1mm to 10mm
Pitch Pattern: Staggered, Square, Deep Staggered
Pitch Size: 2mm to 10mm

MASTICS & SEALANTS

Foster Products: 60-91, 90-61, 81-11, 60-39, 60-90, 30-36, 42-24, 90-66, 30-45, 95-44
SamHwa Products: All Foster equivalent products
Silicon Sealants: Dow Corning 732, Dow Corning 792, Dow Corning GP Clear
BOSS Products: BOSS 326, BOSS 395, BOSS GP Clear, BOSS 322

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