



■ Insapipe 600mm nb residue import line, 2.1km long at NZ Refining Company, Marsden Point

## System Benefits

### ■ High efficiency insulation

- Half the thickness of mineral wool
- Allows more space
- More energy efficient
- Maintenance free

### ■ Rugged Structure

- Support from casing
- Long term integrity of casing
- Long life system
- No corrosion problems

### ■ High strength casing

- Needs no penetrations at hangers or supports
- Self supports on casing: even 900mm nb pipe
- No drop off in efficiency

### ■ Reduced Site Time and Cost

- Install three systems in one operation:  
Insulation, Vapour barrier and Cladding
- Simple assembly using standard equipment
- No extra trades
- Less reliance on site skills

### ■ Quality

- Factory insulated under controlled conditions
- Qualified procedures and controlled conditions throughout manufacture.
- No weather delays. No damp insulation. No reduction in quality due to site conditions or remoteness

### ■ Fire Resistance

- 2 hour fire rating to enhance safety

### ■ Trace heating capabilities

- Raceway incorporated accepts most electric tracers

### ■ Subcontractor liaison as required for practical solutions

- Selection of sub-contractors
- Training through data modules
- Training on-site
- Site supervision
- Assistance with commissioning
- Complete on-time and within budget

### ■ Typical Applications

- Transport and load-in crude lines
- Residues
- Heavy ends
- Additives
- Lube oil
- Grease blending plants
- Chemicals such as phthalic anhydrides and phenol formaldehyde

### ■ Technical Data

#### Insulation

Thermal conductivity:	0.024 W/m <sup>2</sup> K
Compressive Strength	320 kPa
Shear strength	205 kPa
Density	65 kg/m

#### Thickness optimised at design stage:

Minimum recommended	25mm
Maximum recommended	79mm
Maximum operating temperature	130°C

#### Underground system casing

- High density polyethylene, one piece extruded

#### Above Ground system casing materials

- Spiral wound galvanised steel
- Spiral wound stainless steel
- Spiral wound aluminium
- Spiral wound epoxy coated

#### Process Pipe

Normally single or double randoms to Engineer's specification.

Superior system performance may allow reduced diameter and corrosion provision.



■ Insapipes for hydro cracker feed stock, 2.5km long, 600mm nb and 200mm nb at road crossing.



■ Heat tracing a site bend



■ Final cladding

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