SPIROLITE PE PIPES AND FITTINGS

YOUR ANSWER TO CORROSION FREE SYSTEMS
MANUFACTURED IN MALAYSIA CONFORMS TO MS 1058
PE PIPE RESIN USED : PE 80 / PE 100

Increasing awareness of serious corrosion problems of conventional materials and growing concern about leakage problems are the main reasons for the application of SPIROLITE PE Pipes.

ADVANTAGES OF USING SPIROLITE PE PIPES

- CORROSION RESISTANCE
- FLEXIBILITY
- LONG LENGTH AND AVAILABILITY IN COILS
- RESISTANCE TO ABRASION
- SUPERIOR FLOW
- DAMPEN / ELIMINATE WATER HAMMER
- TOUGH AND DURABLE
- LOWER OVERALL COST
- LIGHT WEIGHT
- FULLY WELDED
- HDPE pipes are corrosion free
- Allows good conformity to most terrain contours
- Enable jointless laying of longer pipe
- Ability to handle many types of slurry and other abrasive elements
- Smooth interior surface ensures good flow of water, prevent crust formation on the pipe
- Can withstand higher transient pressure than conventional pipes because of greater elasticity
- Has higher impact strength
- Significant cost savings in terms of transportation, cheaper installation and maintenance
- 6 to 8 times lighter than conventional pipes
- Leak free

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KEY: t = MINIMUM WALL THICKNESS
PN = NOMINAL PRESSURE

Standard Lengths:
1) Pipes from 20mm to 32mm OD are supplied in coils of 100 metres.
2) Pipes of 40mm to 110mm OD are supplied in coils of 50 and 100 metres.
3) Pipes from 110mm to 450mm OD are supplied in straight length of 6 and 12 metres.

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<th>PN8 PE100</th>
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Pipe Application
- Potable water supply systems
- Sewer pipe / Effluent disposal
- Irrigation lines
- Chemical piping
- Industrial applications
- Slurry lines
- Gas distribution pipe

- Submarine pressure pipe / Sea outfall or intake
- Relining / Rehabilitation
- Optic fibre / cable ductings
  Using horizontal directional drilling technique
- Landfills
- District cooling pipelines

Quality Controls
We conduct in-process quality inspection and also carry out tests on melt flow index, oxidation induction time and pressure test. This is to ensure the raw material and finished goods meet the MS 1058 standard.

Jointing Method
- Butt Fusion
- Electrofusion
- Socket Fusion
- Compression fitting

Advantages of Fusion Welding
- Joint as strong as the pipe
- Resistance to ground movement
- Does not reduce flexibility of pipeline
- Leak free
- Allows use in no dig technology
  (e.g. Horizontal directional drilling)

Electrofusion Coupler

Compression Fittings
- Straight Coupler (SC)
- End Cap (EC)
- Male Threaded Adapter (MTA)
- Female Threaded Adapter (FTA)
- Reducing Coupler (RC)
- Equal Bend 90° (EB)
- Male Bend 90° (MB)
- Equal Tee (ET)
- Reducing Tee (RT)
- Female Tee (FT)
- Male Tee (MT)
- Female bend 90° (FB)

Testing of PE Pipe System
- A test pressure of 1.5 times the working pressure, or such lower pressure as may be required shall be applied to the section under test.
- The test section should then be allowed to stand without make up pressure.
- At the end of the first hour, the noted pressure is allowed to drop to 1.5 times working pressure and pumped up again to 1.5 times.
- When the test pressure is attained, the pump is stopped and the rate of pressure drop is recorded.
  The pressure in the pipeline shall be maintained until the entire section has been inspected.
- The section is deemed to have passed the test if no leakage occurs at the weld and the average rate of pressure drop during the 2 hours period does not exceed 10 percent of the test pressure.

Repair of damaged PE Pipe
Damaged pipe could be repaired by cutting off the damaged portion and a new section of pipe is joined using the jointing methods as stated. Electrofusion coupler is preferred.