High Yield Steel
X65/X80/X100
PIPING SOLUTIONS

Canadoil Group manufactures carbon steel welded pipes, fittings, piping systems and pressure vessels. These products provide excellent corrosion and mechanical properties for use in extreme service conditions and environments.
High Yield Steel X65/X80/X100

Canadoil Group has developed its manufacturing capabilities to provide ultimate piping solutions using superior materials to serve the growing industry needs.

INDUSTRIES SERVED

Oil & Gas, Oil sands, Power generation, Nuclear power generation, Refining, Petrochemical, Chemical, and Subsea

PRODUCT CHARACTERISTICS

Carbon steel: API 5L

- Ultra high strength material
- Excellent low-temperature toughness
- High collapse resistance for cold-region and deepwater offshore service
- Good corrosion resistance such as HIC (Hydrogen Induced Cracking) for X65
- Good weldability
- Increased operating pressure
- Reduce in size and weight
- Cost saving for pipeline user (reduction in thickness)

APPLICATIONS

- High pressure pipeline onshore & offshore applications
- Gas pipeline transmission
- Sour gas resistance pipeline applications
- Subsea services

MECHANICAL PROPERTY

<table>
<thead>
<tr>
<th>Grade</th>
<th>Yield Strength, max</th>
<th>Tensile Strength, max</th>
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<tbody>
<tr>
<td></td>
<td>ksi</td>
<td>MPa</td>
</tr>
<tr>
<td>X65</td>
<td>65-87</td>
<td>448-600</td>
</tr>
<tr>
<td>X80</td>
<td>80-102</td>
<td>555-750</td>
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<tr>
<td>X100</td>
<td>100-122</td>
<td>690-840</td>
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STANDARD

Product Type

High Yield Steel

Fitting    ASTM A860 / MSS SP75
Pipe       API 5L, ISO 3183:2007
Plate      -
Forged     ASTM A694

DESIGN THICKNESS

- Grade X65
  - 21.98 mm.
- Grade X80
  - 17.86 mm.
- Grade X100
  - 14.29 mm.

Condition: Diameter size 30 inches, Pressure 3000 psi, and design thickness as per ASME B31.8

MACRO PICTURE

Cross section of weld seam:
The sample of high yield steel X80, Canadoil can weld successfully in our state of art facilities without any problems.

CANADOIL PRODUCTS

<table>
<thead>
<tr>
<th>ELBOW</th>
<th>TEE</th>
<th>REDUCER</th>
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</thead>
<tbody>
<tr>
<td>Diameter Thickness</td>
<td>406.4mm (16&quot;) - 2600mm (102&quot;)</td>
<td>6mm (1/4&quot;) - 150mm (6&quot;)</td>
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<th>CAP</th>
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