

API 5L Plain-end Line Pipe Performance Comparison for Standard Sizes

Choose up to three products to compare:

| | | | | |
|------------------|--|--|--|----|
| Outside Diameter | | | | mm |
| Wall Thickness | | | | mm |
| Grade | | | | |

Pipe Dimensions

| | | | | |
|----------------------------|--|--|--|------|
| Outside Diameter | | | | mm |
| Calculated Inside Diameter | | | | mm |
| Wall Thickness | | | | mm |
| Plain-end Weight | | | | kg/m |
| Grade | | | | |

Mechanical Properties

| | | | | |
|------------------------------------|--|--|--|-----|
| Specified Minimum Yield Strength | | | | MPa |
| Maximum Yield Strength | | | | MPa |
| Specified Minimum Tensile Strength | | | | MPa |
| Maximum Tensile Strength | | | | MPa |
| Yield to Tensile Ratio - Maximum | | | | |
| Weld Seam Tensile - Minimum | | | | MPa |

Minimum Test Pressures

| | | | | |
|-----------|--|--|--|-----|
| Standard | | | | MPa |
| Alternate | | | | MPa |
| Stupp * | | | | MPa |

Resulting Maximum Operating Pressures **

| | | | | |
|------------------------------|--|--|--|-----|
| Class 1 - 0.72 Design Factor | | | | MPa |
| Class 2 - 0.60 Design Factor | | | | MPa |
| Class 3 - 0.50 Design Factor | | | | MPa |
| Class 4 - 0.40 Design Factor | | | | MPa |

Dimensions and mechanical properties are per API 5L 45th Edition with test pressure calculations per API 5L 10.2.6.5 and design pressure calculations per CFR Title 49 Part 192.

* Stupp tests at 100% SMYS for HFW products and 95% for SAWH products with an additional 5% through end load compensation.

** Resulting maximum operating pressures assume a temperature derating factor of 1.000 (250 degrees Fahrenheit or less).

*** Please contact a Stupp representative for details on non-standard sizes, grades, or test pressures.

