

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.

