OCTG & LINE PIPE Advanced Materials. Engineered for Performance.

API 5L X70 / L485

OCTG & Line Pipe | API 5L: X70 | ISO 3183: L485

High strength thermomechanically rolled line pipe for long distance, large diameter transmission. X70 is specified where the pipeline economics are driven by wall thickness and steel tonnage over hundreds of kilometres.



Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- PSL2 supply with controlled chemistry and impact testing
- Sour service variants to NACE MR0175 / ISO 15156 on request
- Bevelled ends, 3LPE / 3LPP coating and hydrotest reports arranged
- Third-party inspection and EN 10204 3.2 certification available

Available forms & sizes

Form	Size range
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 20 - SCH 160 / XXS
Welded Pipes	6" - 56" OD, ERW, EFW and LSAW, 4 - 25 mm wall
Flanges	1/2" - 48", 150# - 2500#, WN / SO / blind
Fittings	1/2" - 48" butt weld elbows, tees, reducers and caps

Chemical composition (%)

Element	Min	Max
C	-	0.24 (PSL2 seamless)
Mn	-	1.40 - 1.65
P	-	0.025
S	-	0.015
CEpcm	-	0.25 (sour service)

Mechanical properties

Property	Value	Unit
Yield Strength (0.5% EUL)	485 - 635	MPa

Property	Value	Unit
Tensile Strength	570 - 760	MPa
Yield / Tensile ratio	0.93 max (PSL2)	-
Charpy V-notch	27 J min at 0 C (average of 3)	J

Physical properties

Property	Value	Unit
Density	7.85	g/cm3
Modulus of Elasticity	210	GPa

Standards

API 5L 46th edition (PSL1 / PSL2), ISO 3183, ASTM A106 / A53 (where specified), NACE MR0175 / ISO 15156 (sour service), EN 10204 3.1 / 3.2

Equivalent grades

L485, L485, ASTM A106 Gr B (lower grade substitute)

Industries served

Oil & Gas, Offshore, Refining, EPC Contractors

Typical applications

- Large diameter gas transmission
- Long distance trunk pipelines
- High pressure export lines
- Pipeline loops and expansions

Live datasheet