

API 5CT L80 Tubing - Data Sheet

Mejor Steel, export sourcing for steel pipe and OCTG | <https://mejorsteel.com/get-a-quote/>

Supply range

Outside diameter 1.050 inch - 4-1/2 inch (26.7 - 114.3 mm)

Most quoted sizes 2-3/8, 2-7/8 and 3-1/2 inch

Wall thickness 2.87 - 9.65 mm depending on size and weight

Length R1 6.10 - 7.32 m, R2 8.53 - 9.75 m, R3 11.58 - 12.80 m

Ends EUE, NUE or premium connection; coupling supplied with the pipe

Surface treatment Black varnish, phosphate, or as agreed

Manufacturing process Hot rolled seamless, quenched and tempered

Delivery standard API 5CT / ISO 11960, PSL1 or PSL2

Inspection and documentation

Inspection Inspected by the producing mill's own inspection department, which is independent of production, against the delivery standard above. Third-party inspection - SGS, BV or TUV, or an inspector you send yourself - can be arranged at the mill or before shipment; give us the dates and the scope at the order stage.

Certificate A mill test certificate to EN 10204 3.1 showing the heat number, the chemical composition and the mechanical results is standard on every order. EN 10204 3.2, countersigned by the inspector you nominate, is available on request.

Documents with the goods The mill test certificate and the packing list travel with the shipment, and the heat number is traceable from cast through to the finished product.

Packing Sea-worthy export packing: bundled by size with end protection, corrosion protection on request, stencilled with the size, grade and heat number.

MOQ One bundle or one truckload; mixed sizes within a bundle accepted.

Lead time Counted from order confirmation, not from the enquiry. Stock sizes 7-15 days; mill run or non-stock 4-6 weeks. The delivery window is fixed on the quotation.

How we supply Sourced through partner mills; the producing mill is named on the quotation.

Chemical composition

Element	L80 Type 1	L80 Type 13Cr	Note
Carbon, C	0.43 max	0.15 - 0.22	Type 1 carbon may be raised to 0.50 max for oil or polymer quenched pipe
Silicon, Si	0.45 max	1.00 max	
Manganese, Mn	1.90 max	0.25 - 1.00	
Phosphorus, P	0.030 max	0.020 max	
Sulphur, S	0.030 max	0.010 max	
Chromium, Cr	not specified	12.0 - 14.0	L80 Type 13Cr is a martensitic stainless grade for CO2 service
Nickel, Ni	0.25 max	0.50 max	

Mechanical properties

Grade	Yield strength	Tensile strength min	Hardness max	Sour service
L80 Type 1	552 - 655 MPa (80,000 - 95,000 psi)	655 MPa (95,000 psi)	23 HRC (241 HBW)	qualified
L80 Type 9Cr	552 - 655 MPa (80,000 - 95,000 psi)	655 MPa (95,000 psi)	23 HRC (241 HBW)	CO2 service (trace H2S)
L80 Type 13Cr	552 - 655 MPa (80,000 - 95,000 psi)	655 MPa (95,000 psi)	23 HRC (241 HBW)	CO2 service (trace H2S)
N80Q (for comparison)	552 - 758 MPa (80,000 - 110,000 psi)	689 MPa (100,000 psi)	not specified	not suitable

Source

Source: chemical composition requirements of API 5CT / ISO 11960. The standard is the governing document.

Source: tensile requirements of API 5CT / ISO 11960. The standard is the governing document.

The L80 types share one yield range and one 23 HRC hardness ceiling; what changes between them is the alloy and the service they suit, and N80Q above them is not a sour-service grade. Source: this page's grade table.

Page: <https://mejorsteel.com/standards/api-5ct-l80-tubing/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.