

API 5CT N80Q Casing - Data Sheet

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

Supply range

Outside diameter 4-1/2 inch - 20 inch (114.3 - 508 mm)
Most quoted sizes 4-1/2, 5, 5-1/2, 7, 9-5/8, 10-3/4 and 13-3/8 inch
Wall thickness 5.21 - 22.22 mm depending on size and weight
Length R1 4.88 - 7.62 m, R2 7.62 - 10.36 m, R3 10.36 - 14.63 m
Ends STC, LTC, BTC 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

Item	P max	S max	Note
API 5CT limits for N80-1 and N80Q	0.030	0.030	Carbon and manganese are not specified; the manufacturer selects them to reach the required strength
Typical mill chemistry for N80Q (36Mn2V type)	0.020	0.015	C 0.34 - 0.38, Si 0.20 - 0.35, Mn 1.45 - 1.70, V 0.11 - 0.16

Mechanical properties

Grade	Yield strength	Tensile strength min	Hardness	Sour service
N80-1	552 - 758 MPa (80,000 - 110,000 psi)	689 MPa (100,000 psi)	not specified	not suitable
N80Q	552 - 758 MPa (80,000 - 110,000 psi)	689 MPa (100,000 psi)	not specified	not suitable
L80 (Type 1)	552 - 655 MPa (80,000 - 95,000 psi)	655 MPa (95,000 psi)	23 HRC max (241 HBW)	qualified
P110	758 - 965 MPa (110,000 - 140,000 psi)	862 MPa (125,000 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.

N80Q shares its yield range and minimum tensile strength with N80-1; what separates the two is the delivery condition, and neither is a sour-service grade without the hardness written into the order. Source: this page's grade comparison table.

Page: <https://mejorsteel.com/standards/api-5ct-n80q-casing/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.