

API 5CT N80 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 - 13-3/8 inch (114.3 - 339.7 mm), other API 5CT sizes on request

Wall thickness 4.83 - 22.22 mm as a wall thickness, or by the API 5CT weight designation in lb/ft

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

Surface treatment Bare, varnish, phosphate, or as specified

Delivery condition N80-1 as-rolled or normalised; N80Q quenched and tempered

Manufacturing process Seamless or ERW (electric resistance welded)

Heat treatment N80-1: as-rolled or normalised. N80Q: quenched and tempered

Delivery standard API 5CT / ISO 11960, threads to API 5B

Types Two delivery conditions of one grade - N80-1 and N80Q; the suffix is part of the order description and is not interchangeable

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	Requirement	Element	Requirement
Phosphorus, P	0.030 max	Carbon, C	not specified
Sulphur, S	0.030 max	Manganese, Mn	not specified
Silicon, Si	not specified	Chromium, Cr	not specified
Nickel, Ni	not specified	Molybdenum, Mo	not specified

Mechanical properties

Grade	Yield strength	Tensile strength	Elongation	Impact test	Hardness
N80-1 (as-rolled or normalised)	552 - 758 MPa (80,000 - 110,000 psi)	689 MPa min (100,000 psi)	per the API 5CT formula	not required by the standard	not specified at delivery
N80Q (quenched and tempered)	552 - 758 MPa (80,000 - 110,000 psi)	689 MPa min (100,000 psi)	per the API 5CT formula	not imposed by the grade; required when PSL2/PSL3 or SR16 (A.9) is specified; minimum absorbed energy tabulated in the standard	not specified by API 5CT at delivery; 22 HRC max applies where NACE MR0175 / ISO 15156 is invoked

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.

N80-1, N80Q and L80 all start at a 552 MPa minimum yield. L80 stops at 655 MPa because of its 23 HRC ceiling, which is what makes it the sour-service choice, and P110 starts at 758 MPa. Source: this page's grade selection tables.

Page: <https://mejorsteel.com/standards/api-5ct-n80-casing/> | The standard is the governing document. MOQ, lead time and price are confirmed on request.