

HUNAN BALING STEEL CO.,LTD

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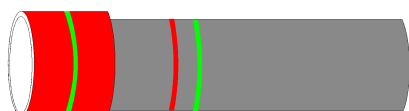


Datasheet for N80 Casing: API 5CT Specifications, Grades & Sizing Guide

N80-1



N80-Q



What Is N80 Casing?

What Is N80 Casing?

N80 is a normalized or normalized-and-tempered grade defined under API 5CT, with a controlled yield strength of 80,000–95,000 psi and a minimum tensile strength of 100,000 psi. **N80-1**, the base sub-grade, delivers reliable strength and toughness for standard well conditions, making **N80 casing pipe** one of the most widely used OCTG grades worldwide. **API N80 casing** conforms strictly to API 5CT chemical, mechanical, and dimensional requirements, ensuring consistent downhole performance. **N80 casing & tubing** covers sizes from 2 $\frac{3}{8}$ " to 20", serving production and intermediate string applications across a wide range of well depths. As a versatile **N80 steel pipe**, it offers excellent weldability and cost-effectiveness for conventional oil and gas wells where extreme corrosion resistance is not required.

- Material Grade: N80-1, N80Q
- Applicable Product: Casing & Tubing 2 $\frac{3}{8}$ "–20".
- Thread Types: BC, STC / LTC, **Premium Connections**.
- Available Lengths: R1 / R2 / R3.

Chemical Composition — API 5CT N80

Grade	C (max%)	Mn (max%)	P (max%)	S (max%)	Ni (max%)	Cu (max%)	Heat Treatment
N80-1	0.34	1.90	0.020	0.010	—	—	Normalized / N&T
N80 Q	0.34	1.90	0.020	0.010	—	—	Quench & Tempered

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**Mechanical Properties — API 5CT N80**

Grade	Yield Min (psi / MPa)	Yield Max (psi / MPa)	Tensile Min (psi / MPa)	Hardness Max	Impact Test (0°C)
N80-1	80,000 / 552	110,000 / 758	100,000 / 689	—	Not Required
N80-Q	80,000 / 552	110,000 / 758	100,000 / 689	22 HRC	Required ≥20J

Test requirements

Steel Grade	Mandatory Tests	Supplementary Tests	NDT	Corrosion Test	Key Control Requirements
N80-1	Chemical analysis, Tensile, Hardness, Hydrostatic pressure	Impact	UT	None	Deep well performance
N80-Q					Quenched & tempered microstructure