

HUNAN BALING STEEL CO.,LTD

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Datasheet for P110 Casing Pipe

P110



What Is P110 Casing Pipe?

P110 is a high-strength carbon steel casing grade defined under API 5CT, with a yield strength of 110,000 – 140,000 psi and a minimum tensile strength of 125,000 psi. Through quenching and tempering, API 5CT P110 casing achieves a uniform tempered microstructure that delivers excellent strength and consistent hardness across the pipe wall. P110 casing pipe is available in sizes from 4½" to 20" , covering surface, intermediate, and production strings in deep and ultra-deep wells where high collapse and burst resistance are critical. Compared to lower grades such as N80 or L80, grade P110 casing offers significantly higher load-bearing capacity, making it the preferred choice for high-pressure gas wells and demanding directional drilling programs. All products are manufactured and tested in accordance with API 5CT / ISO 11960 specifications.Material Grade: N80-1, N80Q

- Applicable Product: Casing & Tubing 4½"–20"
- Thread Types: STC / LTC / BTC, Premium Connections
- Available Lengths: R1 / R2 / R3
- Service Environment: High-Pressure Deep Wells, API 5CT / ISO 11960 Compliant

Chemical Composition of P110 Casing Pipe

Grade	C	Mn	Mo	Cr	Ni max.	Cu max.	P max.	S max.	Si
API 5CT P110	—	—	—	—	—	—	≤ 0.030%	≤ 0.030%	—
API 5CT P110 EW / ERW	—	—	—	—	—	—	≤ 0.020%	≤ 0.010%	—

Note: API 5CT mainly restricts P and S in the standard chemical composition of P110. Other elements are usually implemented according to the steel mill's smelting design and are reported in the MTC/MTR material certificate.

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**Mechanical Properties of P110 Casing Pipe**

Grade	Yield Strength min.	Yield Strength max.	Tensile Strength min.	Hardness max.	Heat Treatment
API 5CT P110	758 MPa / 110,000 psi	965 MPa / 140,000 psi	862 MPa / 125,000 psi	No API specified limit	Quenched & Tempered

Test requirements of P110 Casing Pipe

Steel Grade	Mandatory Tests	Supplementary Tests	NDT	Corrosion Test	Key Control Requirements
P110	Chemical analysis, Tensile, Hardness, Hydrostatic pressure	Metallographic examination	UT	None	Quenched and tempered structure