

HUNAN BALING STEEL CO.,LTD

Add:NO.18 YIJIA GROUP,MULI MANAGEMNET OFFICE ECONOMIC DEVELOPMENT ZONE,
YUEYANG,HUNAN PROVINCE,P.R.CHINA.

Tel: +86 18216341633

E-mail Address: Lincoln@balingsteel.com Website:www.baling-steel.com



Datasheet for Q125 Casing



Q125 Casing Pipe – High-Strength Steel Casing for Oil & Gas Wells

Q125 is an ultra-high-strength steel casing grade defined under API 5CT / ISO 11960, with a yield strength of 125,000–150,000 psi and a minimum tensile strength of 135,000 psi. Through controlled alloy design, quenching, and tempering, API 5CT Q125 casing achieves excellent strength, toughness, and dimensional stability for demanding downhole conditions. Q125 casing pipe is typically used in deep and ultra-deep wells where high axial load, collapse resistance, and burst pressure performance are critical.

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

Chemical Composition

Q125 Casing Chemical Composition

API 5CT Q125 casing pipe is a high-strength low-alloy casing grade. Its chemical composition is controlled to ensure hardenability, toughness, and stable mechanical performance after quenching and tempering. In API 5CT chemical composition tables, Q125 is listed with Type 1, Type 2, Type 3, and Type 4 chemistry options; “NL” means no limit, while the element still needs to be reported in product analysis.

Grade	Type	C max.	Mn max.	Mo max.	Cr max.	Ni max.	Cu max.	P max.	S max.	Si max.
Q125	1	0.0035	0.0135	0.0085	0.015	0.0099	—	0.0002	0.0001	—
Q125	2	0.0035	0.01	NL	NL	0.0099	—	0.0002	0.0002	—
Q125	3	0.005	0.019	NL	NL	0.0099	—	0.0003	0.0001	—
Q125	4	0.005	0.019	NL	NL	0.0099	—	0.0003	0.0002	—

Mechanical Properties

Q125 Casing Mechanical Properties

HUNAN BALING STEEL CO.,LTDAdd:NO.18 YIJIA GROUP,MULI MANAGEMNET OFFICE ECONOMIC DEVELOPMENT ZONE,
YUEYANG,HUNAN PROVINCE,P.R.CHINA.

Tel: +86 18216341633

E-mail Address: Lincoln@balingsteel.com Website:www.baling-steel.com



Grade	Type	Yield Strength	Tensile Strength	Hardness
Q125	All	862–1034 MPa 125,000–150,000 psi	≥931 MPa ≥135,000 psi	No fixed max hardness limit; hardness variation is controlled

Test requirements of Q125 Casing Pipe

Steel Grade	Mandatory Tests	Supplementary Tests	NDT	Corrosion Test	Key Control Requirements
Q125	Chemical analysis, Tensile, Hardness, Hydrostatic pressure	Metallographic examination	UT+MT	limited	High-strength crack risk