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T95 Casing Pipe — Complete Guide to API 5CT T95 Specifications & Applications

What Is API 5CT T95 Casing Pipe?

T95 is a quenched-and-tempered grade defined under API 5CT, belonging to **Group 2** alongside grades such as C90 and R95. It has a controlled yield strength of 95,000–110,000 psi and a minimum tensile strength of 105,000 psi. **T95-1**, the primary sub-type, is specifically engineered for **SSC (sulfide stress cracking)** resistance, making **T95 casing pipe** an ideal choice for sour-service environments containing hydrogen sulfide (H_2S). **API T95 casing** conforms strictly to API 5CT chemical, mechanical, and dimensional requirements, including hardness limits (HRC ≤ 25.4) to ensure reliable performance under corrosive downhole conditions. **T95 casing & tubing** covers sizes from 2⅜″ to 20″, serving production, intermediate, and surface string applications across demanding well profiles. As a high-performance **T95 steel pipe**, it offers an excellent balance of strength, toughness, and sour-service capability for oil and gas wells where resistance to sulfide stress cracking is critical.

- Material Grade: T95-1, T95-2
- Applicable Product: Casing & Tubing 2⅜″–20″.
- Thread Types: BC, STC / LTC, **Premium Connections.**
- Available Lengths: R1 / R2 / R3.
- Sour Service: SSC resistant per NACE MR0175 / ISO 15156.

T95 Chemical Composition (per API 5CT)

API 5CT T95 casing pipe is divided into two chemical sub-types — T95-1 and T95-2. T95-1 is a low-alloy Cr-Mo grade engineered for sour-service (H_2S) environments, while T95-2 is a higher carbon / manganese variant. All values below are mass-percentage maximums unless a range is specified.

Element (% max)	T95-1	T95-2
Carbon (C)	0.35	0.50
Manganese (Mn)	1.20	1.90
Silicon (Si)	0.45	—
Phosphorus (P)	0.02	0.03
Sulfur (S)	0.01	0.01
Chromium (Cr)	0.40 – 1.50	—
Molybdenum (Mo)	0.25 – 0.85	—
Nickel (Ni)	0.99	0.99
Copper (Cu)	—	—

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"—" indicates no limit specified by API 5CT. T95-1 is required for sour-service applications under NACE MR0175 / ISO 15156.

T95 Mechanical Properties

T95 steel pipe delivers a controlled, narrow yield window of **95,000 – 110,000 psi** with strict hardness limits to ensure resistance to sulfide stress cracking (SSC). Both T95-1 and T95-2 share identical mechanical requirements under API 5CT.

Property	Value
Yield Strength (min)	95,000 psi (655 MPa)
Yield Strength (max)	110,000 psi (758 MPa)
Tensile Strength (min)	105,000 psi (724 MPa)
Elongation (min)	Per API 5CT formula (typ. ≥ 18%)
Hardness (max)	255 HBW / 25.4 HRC
Heat Treatment	Quench & Temper (Q&T)
Delivery Condition	Seamless (standard)
Charpy V-Notch (Transverse)	Per API 5CT Annex H, sour-service requirement

Test requirements

Steel Grade	Mandatory Tests	Supplementary Tests	NDT	Corrosion Test	Key Control Requirements
T95 Casing	Chemical analysis, Tensile, Hardness, Hydrostatic pressure	SSC,Impact	UT+MT	NACE TM0177	Anti-SSC