

## HUNAN BALING STEEL CO.,LTD

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## Datasheet for M65 Casing Pipe: API 5CT Specification, Properties & Applications

### M65



### What Is M65 Casing Pipe?

**M65** is a medium-strength casing grade defined in API 5CT, offering a minimum yield strength of 65,000 psi (448 MPa) and a minimum tensile strength of 85,000 psi (586 MPa). It is the only general-purpose casing grade with a restricted maximum hardness requirement, produced through normalizing or quenching-and-tempering heat treatment. Its controlled hardness makes it well suited for wells where toughness and consistent mechanical properties are required in non-sour service environments.

- Applicable Product:Casing & Tubing 4½"—20".
- Thread Types: STC, LTC / BTC.
- Available Lengths: R1 / R2 / R3.

### API 5CT M65 Chemical Composition & Mechanical Properties

Grade M65 is a legacy API 5CT grade. API announced that the 10th edition eliminated Grade M65 entirely from API Spec 5CT; the current 11th edition is now the monogram basis for products manufactured on or after January 1, 2025. Use the values below only when working to an older/API 5CT M65 purchase specification or legacy MTR.

#### Chemical Composition

Grade	C (max%)	Mn (max%)	P (max%)	S (max%)	Ni (max%)	Cu (max%)	Heat Treatment
<b>M65</b>	—	—	0.030	0.030	—	—	Normalized / N&T/Q&T

#### Mechanical Properties

Grade	Yield (psi / MPa)	Tensile Min (psi / MPa)	Hardness Max	Impact Test (0°C)
<b>M65</b>	65–85 ksi / 448–586	85 ksi / 586	22 HRC / 235 HBW	Not Required

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**Test requirements**

Steel Grade	Mandatory Tests	Supplementary Tests	NDT	Corrosion Test	Key Control Requirements
N80-1	Chemical analysis, Tensile, Hardness, Hydrostatic pressure	SSC	UT+MT	NACE TM0177	Hardness $\leq$ 22HRC