

HUNAN BALING STEEL CO.,LTD

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API 5CT H40 Casing Data Sheet



H40 is the lowest-strength grade in API 5CT, requiring no heat treatment and making it the most cost-effective option for shallow, low-pressure, non-corrosive wells. It is not recommended for sour service (H₂S) environments and is exempt from hardness and impact testing requirements.

- Applicable Product-Only Casing:4½"--20"
- Thread Types:BC,STC / LTC.

Chemical Composition

Element	Requirement
Carbon (C)	Not specified (no restriction)
Manganese (Mn)	Not specified
Phosphorus (P)	≤ 0.030%
Sulfur (S)	≤ 0.030%

Mechanical Properties

Property	Requirement
Minimum Yield Strength	276 MPa (40,000 psi)
Maximum Yield Strength	552 MPa (80,000 psi)
Minimum Tensile Strength	414 MPa (60,000 psi)
Minimum Elongation	Per API 5CT Table C.6 (elongation formula)
Hardness	Not specified

Manufacturing & Heat Treatment

Property	Requirement
Process	Seamless or Electric Weld (EW)
Heat Treatment	None required

Other Test

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Test	Scope	Purpose
Flattening Test	Electric-weld (EW) pipe only	Verify weld integrity and ductility of the pipe body
Hydrostatic Test	Each pipe	Confirm pressure integrity
Dimensional Inspection	Each pipe	Verify OD, wall thickness, length, and weight

H40 Casing Features & Applications

H40 casing is widely selected for well programs where formation pressures are low and corrosive conditions are absent. Typical applications include:

- Shallow oil and gas wells — surface casing and conductor pipe in low-pressure formations
- Water wells — municipal and agricultural water supply projects
- Geothermal wells — low-temperature, low-pressure geothermal drilling programs
- Coal bed methane (CBM) wells — surface and intermediate casing in shallow CBM projects
- Structural applications — where API-grade pipe is specified for non-production use