CARBON STEEL PLATES Advanced Materials. Engineered for Performance.

SA516 Grade 60 Plates



Carbon Steel Plates | ASTM / ASME: A516 / SA516 Grade 60 | EN: P265GH / 1.0425 (nearest) | Metric: SA516M Grade 415

Carbon pressure vessel plate for moderate and lower temperature service. The lower carbon of Grade 60 gives better formability and weldability than Grade 70, which suits cold-formed heads, thin shells and plant where notch toughness matters more than tensile strength.

Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- Better formability than Grade 70 for cold-formed heads
- Normalised, impact tested and simulated PWHT options
- Dual certification, NACE MR0103 / MR0175 and HIC / SSC testing available
- Ultrasonic examination to SA578 and Z-direction testing on request

Available forms & sizes

Form	Size range
Plates	5 - 200 mm thk, up to 3000 mm wide, cut to size

Chemical composition (%)

Element	Min	Max
C	-	0.23 (t <= 25 mm)
Mn	0.60	1.20
Si	0.15	0.40
P	-	0.025
S	-	0.025

Mechanical properties

Property	Value	Unit
Yield Strength	220 min	MPa
Tensile Strength	415 - 550	MPa
Elongation	21 min (200 mm gauge)	%
Condition	As rolled or normalised	-

Physical properties

Property	Value	Unit
Density	7.85	g/cm3
Max Service Temperature	425	C

Standards

ASTM A516 / ASME SA516, ASME Section VIII Div 1, ASTM A20 general requirements, ASTM A578 (ultrasonic examination), EN 10204 3.1 / 3.2

Equivalent grades

SA516 Gr 60, P265GH, 1.0425, SA516M Gr 415

Industries served

Oil & Gas, Petrochemical, Power Generation, Water & Desalination, Fertiliser

Typical applications

- Pressure vessel shells and heads
- Storage tanks and separators
- Boiler drums and steam plant
- Heat exchanger shells and tube sheets

Live datasheet