ASTM A516 Grade 65 Pressure Vessel Steel PLATE

1.Pressure Vessel Steel Home Page

ASTM A516

ASTM A516 Grade 60 | ASTM A516 Grade 65 | ASTM A516 Grade 70

2.ASTM A516 Grade 65 is a pressure vessel and boiler quality steel grade used by the world's leading fabricators in the production of pressurised vessels and boilers.ASTM A516 Grade 65 is an excellent weldable carbon steel choice for pressure vessels and boiler fabrication. The material offers excellent performance in lower than ambient temperature service, has good weldability and excellent notch toughness. A516 Grade 65 has greater specified tensile and yield strength when compared with ASTM A516 Grade 60

3.Used throughout the oil, gas and petrochemical industry, the steel is also found in sour service and wet H2S applications (where the steel is HIC tested).

4.We stock ASTM A516 Grade 65 carbon steel plates which come with mill certification in compliance with EN10204 3.1 or EN10204 3.2. The plates are hard stamped and are fully traceable.

Table 1: Chemical Composition of ASTM A516 Grade 65

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Carbon (C) | % | Manganese (Mn) | % | Phosphorus (P) | % |
| 12.5mm or less 12.5 - 50mm 50 - 100mm 100 - 200mm > 200mm | 0.24 0.26 0.28 0.29 0.29 | 12.5mm or less       • Heat Analysis :       • Product Analysis : Over 12.5mm       • Heat Analysis :       • Product Analysis : | 0.85-1.20 0.79-1.30  0.85-1.20 0.79-1.30 | (max) | 0.035 |
| Sulphur (S) | % | Silicon (Si) | % |  | |
| (max) | 0.035 | • Heat Analysis :       • Product Analysis : | 0.15-0.40 0.13-0.45 |

(Maximum values unless stated otherwise)

Table 2: Mechanical Properties of ASTM A516 Grade 65

|  |  |
| --- | --- |
| Description | Grade 70 |
| Tensile strength (ksi) Tensile strength (MPa) Yield strength (ksi) Yield strength (MPa) Elongation in 200mm (min)(%) Elongation in 50mm (min) (%) Thickness (max)(mm) | 65-85 450-585 35 240 19 21 205 |

(Minimum values unless stated otherwise)

(Please note: the technical information above is for guidance only – for exact specifications please check with our Sales Team)

5.To find out more about ASTM A516 Grade 65 and to receive a competitive quotation for the supply of this material, please contact us.