ASTM A516 Grade 70 Pressure Vessel Steel plate

1.Pressure Vessel Steel Plate

ASTM A516

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

2.A516 Grade 70 is a pressure vessel/boiler quality grade steel used throughout the petrochemical, oil and gas industry.ASTM A516 Grade 70 is a boiler and pressure vessel quality steel which is ideal for moderate and lower temperature service.

3.The material is used extensively by industrial boiler and pressure vessel fabricators who provide manufacturing support to the oil, gas and petrochemical industry. The steel has good weldability and excellent notch toughness.

4.We keep a healthy stock of ASTM A516 Grade 70 carbon steel plates. These plates come with mill certification in compliance with EN10204 3.1 or EN10204 3.2. and are hard stamped and fully traceable. Alternatively we can ship to you directly from the mill.

5.Please refer to the data tables below. Should your require a pressure grade steel with greater tensile and yield strength, please refer to ASTM A516 Grade 70 and/or ASTM A516 Grade 70.

6.Table 1: Chemical Composition of ASTM A516 Grade 70

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Carbon (C) | % | Manganese (Mn) | % | Phosphorus (P) | % |
| 12.5mm or less 12.5 - 50mm 50 - 100mm 100 - 200mm > 200mm | 0.27 0.28 0.30 0.31 0.31 | 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)

7.Table 2: Mechanical Properties of ASTM A516 Grade 70

|  |  |
| --- | --- |
| 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) | 70-90 485-620 38 260 17 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)

8.To find out more about ASTM A516 Grade 70 and to receive a competitive quotation for the supply of this material.