ASME SA516 Grade 70 Pressure Vessel Steel plate

1.Pressure Vessel Steel

ASME SA516

ASME SA516 Grade 60 | ASME SA516 Grade 65 | ASME SA516 Grade 70

2.ASME SA516 Grade 70 a pressure vessel and boiler quality steel used in lower temperature service. An ideal steel for use in moderate to lower working temperatures, ASME SA516 Grade 70 is used in the fabrication of wieldable industrial boilers and steel pressure vessels.

3.It is a normalized steel which is known for its excellent notch toughness and weld ability and is primarily found in pressurized service throughout the oil, gas and petrochemical industry.

4.We carry a significant volume of ASME SA516 Grade 70 carbon steel plates in stock which we ship to our clients worldwide. These plates come with mill certification and are hard stamped so are fully traceable.

5.Please refer to the data tables below for further information.

Table 1: Chemical Composition of ASME SA516 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 0.79-1.3  0.85-1.20 0.79-1.30 | (max) | 0.035 |
| Sculpture (S) | % | Silicon (Si) | % |  | |
| (max) | 0.035 | • Heat Analysis :       • Product Analysis : | 0.15-0.40 0.13-0.45 |

(Maximum values unless stated otherwise)

6.Table 2: Mechanical Properties of ASME SA516 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) (%) | 70-90 485-620 38 260 17 21 |

Description Grade 70

(Minimum values unless stated otherwise)

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

7.To find out more about ASME SA516 Grade 70 and to receive a competitive quotation for the supply of this material, please contact us.