ASME SA516 Grade 70 STEEL PLATE

1.Pressure Vessel Steel Home Page

ASME SA516

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

2.ASME SA516 Grade 70 is a normalised pressure vessel quality steel used throughout the oil, gas and petrochemical industry.ASME SA516 Grade 70 – one Masteel's most popular steel grades, the material is highly sort after for welded fabrication in industrial pressure vessels and boilers.

3.Used throughout the oil, gas and petrochemical industry the material is a normalized steel with excellent weldability and improved notch toughness i.e. the materials ability to absorb energy when a flaw is present.

4.We keep this material in stock with added stringent restrictions applied to the chemical, mechanical and testing requirements – this ensures that the material is available to you from our warehouse, regardless of your requirements.

5.Please refer to the technical details for ASME SA516 Grade 70 below...

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 0.79-1.30  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 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 |

(Minimum values unless stated otherwise)

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

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