ASME SA516 Grade 65 Steel plate

1.Pressure Vessel Steel Home Page

ASME SA516

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2.ASME SA516 Grade 65 is used by fabricators in the production of pressurised steel vessels and industrial boilers. Suitable for a variety of applications in the Petrochemical, Chemical, Oil & Gas Industries, ASME SA516 Grade 65 is a carbon steel used by worldwide fabricators serving these markets.

3.The steel grade is used in the fabrication of weldable pressure vessels and boilers due to the materials specific composition and characteristics. Excellent notch toughness coupled with good weldability are consistent typical in this grade.

4.We stock this steel grade which is ordered to international standards with additional stringent restrictions applied to the chemical, mechanical and testing requirements. This ensures that clients who have more complex needs can receive steel from us, ex–stock, to their requirements.

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

Table 1: Chemical Composition of ASME SA516 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 ASME SA516 Grade 65

|  |  |
| --- | --- |
| Description | Grade 65 |
| Tensile strength (ksi) Tensile strength (MPa) Yield strength (ksi) Yield strength (MPa) Elongation in 200mm (min)(%) Elongation in 50mm (min) (%) | 65-85 450-585 35 240 19 23 |

(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 65 and to receive a competitive quotation for the supply of this material, please contact us.