ASME SA537 Class 1 carbon steel plates

1.Pressure Vessel Steel Home Page

ASME SA537

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2.ASME SA537 class 1 steel plates available from stock. ASME SA537 Class 1 carbon steel plates are produced for use in pressurised service and are commonly used in the fabrication of industrial pressurised vessels and boilers.

3.Class 1 plates are provided in normalised condition and are heat treated as a result, the material displays greater yield and tensile strength than the more standard ASTM A516 grades. Masteel UK Limited supplies ASME SA537 Class 1 plates to the world's leading fabricators serving the Oil, Gas and Petrochemical industry. The material is used in a variety of applications including pressurised tanks and heat exchangers.

4.We supply ASME SA537 Class 1 plates from stock or directly from the mill and all of our plates come with their own stamping and mill certification as standard.

5.For more information please refer to the technical specifications below:

Chemical Composition (max unless stated)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | C | Si | Mn | P | S | Cr | Mo | Ni | Cu |
| ≤ 40 mm | > 40 mm |
| SA537 Class 1 | 0.24 | 0.15/0.50 | 0.70/1.35 | 1.00/1.60 | 0.035 | 0.035 | 0.25 | 0.80 | 0.25 | 0.35 |

6.Mechanical Properties (min unless stated)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade | Yield (MPa) | Tensile (MPa) | Elongation | Thickness |
| A50mm | A200mm |
| SA537 Class 1 | 345 | 485/620 | 22% | 18% | ≤ 65 |
| 310 | 450/585 | 22% | 18% | > 65 ≤ 100 |

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

7.To obtain more information about ASME SA537 Class 1 carbon steel plates and to receive a detailed and competitive quotation, please contact us.