ASTM A537 Class 1 carbon steel plates

1.Pressure Vessel Steel Home Page

ASTM A537

ASTM A537 Class 1 | ASTM A537 Class 2

2.ASTM A537 Class 1 steel plates for pressurised service. ASTM A537 Class 1 carbon steel plates are engineered to be used in pressure vessel applications. The material is a normalised steel which is heat treated and as a consequence displays greater yield and tensile strength than the more standard ASTM A516 grades. The steel is ideal for use in pressurised service both in boilers and pressure vessels and We Limited supplies A537 Class 1 plates to the world's leading fabricators who in turn serve the Oil, Gas and Petrochemical industry.

3.We can supply ASTM A537 Class 1 plates from stock or directly from the mill. We also offer an in house profiling service where the material can be cut to the size or shape you require.

4.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 |
| A537 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 |

5.Mechanical Properties (min unless stated)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade | Yield (MPa) | Tensile (MPa) | Elongation | | Thickness |
| A50mm | A200mm |
| A537 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)

6.For more information about ASTM A537 Class 1 carbon steel plates and to receive a detailed and competitive quotation, please contact us.