ASTM A387 Grade 11 Class 2 Pressure Vessel Steel PLATE

1.Chrome Mole Plate

ASTM A387

ASTM A387 Grade 5 Class 2 | ASTM A387 Grade 9 Class 2 | ASTM A387 Grade 11 Class 2

ASTM A387 Grade 12 Class 2 | ASTM A387 Grade 22 Class 2 | ASTM A387 Grade 91 Class 2

2.ASTM A387 Grade 11 Class 2 chrome moly steel plates from China United Iron And Steel Co,.Ltd. As a quality chrome moly steel, A387 Grade 11 Class 2 is used in a variety of industries and is highly effective, particularly in the oil, gas and chemical industry, where liquids and gases are often stored at high temperature (see pressure vessels).

The higher levels of chromium also provide excellent corrosion and oxidation resistance.

3.Please refer to our technical specifications below for ASTM A387 Grade 11 Class 2... Equivalents

|  |  |  |  |
| --- | --- | --- | --- |
| BS | EN | ASTM/ASME | DIN |
| 621 B | ––– | A387-11-2 | ––– |

4.Specifications

Chromium & Molybdenum content (according to the ASTM specification):

|  |  |  |
| --- | --- | --- |
| Designation | Nominal Chromium Content (%) | Nominal Molybdenum Content (%) |
| A387 Grade 11 | 1.25% | 0.50% |

5.Tensile Requirements for Class 2 Plates

|  |  |  |
| --- | --- | --- |
| Designation: | Requirement: | Grade 11 |
| A387 Grade 11 | Tensile strength, ksi [MPa] | 75 to 100 [515 to 690] |
|  | Yield strength, min, ksi [MPa]/(0.2% offset) | 43 [310] |
|  | Elongation in 8 in. [200mm], min % | 18 |
|  | Elongation in 2 in. [50mm], min, % | 22 |
|  | Reduction of area, min % | ––– |

6.Chemical Requirements

|  |  |  |
| --- | --- | --- |
| Element |  | Chemical Composition (%) inc. Grade UNS No. |
|  |  | Grade 11 (UNS: K11789) |
| Carbon: | Heat Analysis: | 0.05 - 0.17 |
|  | Product Analysis: | 0.04 - 0.17 |
| Manganese: | Heat Analysis: | 0.40 - 0.65 |
|  | Product Analysis: | 0.35 - 0.73 |
| Phosphorus: | Heat Analysis: | 0.035 |
|  | Product Analysis: | 0.035 |
| Sulphur (max): | Heat Analysis: | 0.035 |
|  | Product Analysis: | 0.035 |
| Silicon: | Heat Analysis: | 0.50 - 0.80 |
|  | Product Analysis: | 0.44 - 0.86 |
| Chromium: | Heat Analysis: | 1.00 - 1.50 |
|  | Product Analysis: | 0.94 - 1.56 |
| Molybdenum: | Heat Analysis: | 0.45 - 0.65 |
|  | Product Analysis: | 0.45 - 0.70 |

7.Tension Test Requirements:

Material shall be tested using a test specimen will confirm to the tensile requirements as outlined in Table 2.

8.Other requirements:

The following requirements and testing procedures (which are not mandatory) are considered suitable for Chrome Molybdenum steel:

Vacuum treatment

Product Analysis

Additional Tension Test

Charpy V-Notch Impact Test

Drop Weight Test

High Temperature Tension Test

Ultrasonic Examination

Magnetic Particle Examination

9.To find out more about our's services and ASTM A387 Grade 11 Class 2 steel plates which we can supply directly to you, Please contact us.