S355J0WP Weathering Steel

1.Weather Resistant Steel

Corten Steel | Corten A | Corten B | S355J0WP | S355J0W | S355J2W

2.S355J0WP is a weathering steel equivalent of Corten A S355J0WP is a structural weathering steel which is also referred to as atmospheric corrosion resistant steel. The main alloying elements are chromium nickel and copper with added phosphorous which gives it excellent self protecting qualities. As the steel reacts with elements in the atmosphere, the material forms a layer of rust over time which in essence protects the steel from corrosion.

3.S355J0WP (which is an equivalent grade to Corten A) provides a long lasting and economic structural steel solution for use in applications such as steel bridges stack gas applications and in steel sculptured buildings due to the material's aesthetically pleasing finish.

4.Grades & Equivalents

|  |  |
| --- | --- |
| EN 10025-5:2004 | Corten |
| S355J0WP | Corten A |

5.Chemical Composition

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | C | Si | Mn | P | S | N | Addition of nitrogen binding elements | Cr | Cu |
| S355J0WP | 0.12 | 0.75 | 1.0 | 0.06/0.15 | 0.035 | 0.009 | – | 0.30/1.25 | 0.25/0.55 |

Maximum values unless otherwise stated

6.Mechanical Properties

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Min. Yield Strength Reh MPa | | | | | | Tensile Strength Rm MPa | | |
| Nominal Thickness (mm) | | | | | | Nominal Thickness (mm) | | |
| ≤16 | >16 ≤40 | >40 ≤63 | >63 ≤80 | >80 ≤100 | >100 ≤150 | >3 | >3 ≤100 | >100 ≤150 |
| S355J0WP | 355 | 345 | – | – | – | – | 510/680 | 470/630 | – |

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

7.As a worldwide steel stockist, We can offer S355J0WP weathering steel to your requirements – Please contact us with your enquiry.