

EN10025-5 S355J0WP,S355J0WP steel,S355J0WP grade,S355J0WP steel grade, S355J0WP steel plate,S355J0WP steel supplier

S355J0WP Steel Description

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.

S355J0WP Steel Delivery state

Hot Rolled, Cold Rolled, Normalized, Quenched, Tempering, Thermal Mechanical Control Process (TMCP), Electroslag Remelting Technical, HIC test.

S355J0WP Steel Application

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. Moreover, S355J0WP steel with improved atmospheric corrosion resistance has a wide range of applications: architecture, smokestacks, fabrication, freight wagons, silos, pylons etc..

S355J0WP Steel Chemical Composition

C %	Mn %	Cr %	Si %	CEV %	S %
Max 0.12	Max 1	0.3-1.25	Max 0.75	Max 0.52	Max 0.035
Cu %	P %	N %			
0.25-0.55	0.06 - 0.15	Max 0.009			

Method of deoxidation FN = rimming steels not permitted.

$$CEV = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

For long products the P and S content can be 0.005% higher.

The S355J0WP steels may show a Ni content of max. 0,65 %.

The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,020 % or if sufficient other N binding elements are present. The N binding elements shall be mentioned in the inspection document

Bebon steel — The most professional exporter on weathering resistant steel

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S355J0WP Steel Mechanical Properties

Grade	Min. Yield Strength Mpa						Tensile Strength MPa			Impact	
	Nominal Thickness (mm)						Nominal Thickness (mm)			degree	J
Thick mm	≤16	>16 ≤40	>40 ≤63	>63 ≤80	>80 ≤100	>100 ≤150	≤3	>3 ≤100	>100 ≤150	0	27
S355J0WP	355	345	510-680	470-630		

The tensile test values given in the table apply to longitudinal samples; in case of strip and sheet steel of widths of ≥ 600 mm they apply to transverse samples.

If S355J0WP mechanical properties have been significantly modified by heavy coldforming, either stress relief annealing or normalised may be applied. Normalised should also be applied following hotforming outside of the temperature range of 750 - 1.050 °C and after overheating.

S355J0WP Steel Services

Cutting, Painting, shot blast, and The third party inspection in DNV, BV, LR, GL, ABS, CCS, SGS, and others in super thick ship steel plate.

Henan Bebon International Co., Ltd is specialized in super thick atmospheric corrosion resistance of structural steel plate. Bebon International is a professional S355J0WP steel exporter and a steel Stockist in china. We keep more than 1000 tons S355J0WP steel in stock every month. Besides that, Bebon International has very good relationship with every big steel mill, so we could promise the delivery time and the competitive price compared with other companies. So, if you have any inquiry about S355J0WP steel, if you are looking for a sincerely S355J0WP steel supplier and want to get the S355J0WP steel price, please do not hesitate to contact us. Any need in S355J0WP steel grade, please feel free to contact us by email or calling to us, we will supplier high quality S355J0WP steel with competitive price to you soon.

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