

EN10025-5 S355J2WP,S355J2WP steel,S355J2WP grade,S355J2WP steel grade, S355J2WP steel plate,S355J2WP steel supplier

### S355J2WP Steel Description

S355J2WP steel grade is a hot rolled products of structural steels in technical delivery conditions with improved atmospheric corrosion resistance. 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.

### S355J2WP Steel Delivery state

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

### S355J2WP Steel Application

Corrosion resistant steel plate S355J2WP under standard EN 10025\_5 is mainly used for container steel. Moreover, S355J2WP steel with improved atmospheric corrosion resistance has a wide range of applications: architecture, smokestacks, fabrication, freight wagons, silos, pylons and bridges. S355J2WP steel alloying with copper and chromium ensure the formation of a firmly adhering protective layer of rust which concurrently makes for an attractive appearance.

### S355J2WP 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 0.03
Cu %	P %				
0.25-0.55	0.06 - 0.15				

Method of deoxidation FF = fully killed steel

$$CEV = C + \frac{Mn}{8} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$$

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

The S355J2WP steels may show a Ni content of max. 0,65 %

The S355J2WP steels shall contain at least one of the following elements: Al total  $\geq$  0,020 %, Nb: 0,015 - 0,060 %, V: 0,02 - 0,12 %, Ti: 0,02 - 0,10 %. If these elements are used in combination, at least one of them shall be present with the minimum content indicated.

### S355J2WP Steel Mechanical Properties

**Bebon steel — The most professional exporter on weathering resistant steel**

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

http://www.bebonchina.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

Grade	Min. Yield Strength Mpa						Tensile Strength MPa			Impact	
S355J2WP	Nominal Thickness (mm)						Nominal Thickness (mm)			degree	J
Thick mm	≤16	>16	>40	>63	>80	>100	≤3	>3 ≤100	>100 ≤150		
		≤40	≤63	≤80	≤100	≤150					
S355J2WP	355	345	....	....	....	....	510-680	470-630	....	-20	27

If S355J2WP 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. The tensile test values given in the table apply to longitudinal samples; in case of strip and sheet steel of widths of  $\geq 600$  mm they apply to transverse samples.

### S355J2WP 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 has very good relationship with every big steel mill, so we could promise the delivery time and the competitive price compared with other companies. Besides that, Bebon International is a professional S355J2WP steel exporter and a steel Stockist in china. We keep more than 1000 tons S355J2WP steel in stock every month. So, if you have any inquiry about S355J2WP steel, if you are looking for a sincerely S355J2WP steel supplier and want to get the S355J2WP steel price, please do not hesitate to contact us. Any need in S355J2WP steel grade, please feel free to contact us by email or calling to us, we will supplier high quality S355J2WP steel with competitive price to you soon.

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Tel:0086-371-86151527

E-mail:bb@bebonchina.com

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