

EN10025-5 S235J2W,S235J2W steel,S235J2W grade,S235J2W steel grade,S235J2W steel plate,S235J2W steel supplier

### S235J2W Steel Description

S235J2W steel grade is a hot rolled products of structural steels in technical delivery conditions with improved atmospheric corrosion resistance.

S mean S235J2W grade could be used in structural steel projects, 235 is the min yield strength. J0 ,J2 and K2 standard for the impact degree and energy in 0 temperature.

W means that the mainly different in their carbon and phosphorus contents and availability.

### S235J2W Steel Delivery State

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

### S235J2W Steel Application

Because of its low carbon content and fine-grained structure, S235J2W Steels with improved atmospheric corrosion resistance have excellent weldability. So S235J2W steel is mainly used for manufacturing welded, riveted or bolted structures.

Moreover, S235J2W steel with improved atmospheric corrosion resistance has a wide range of applications: architecture, smokestacks, fabrication, freight wagons, silos, pylons and bridges.

### S235J2W Steel Chemical Composition

C %	Mn %	Cr %	Si %	CEV %	S %
Max 0.13	0.2-0.6	0.4-0.8	Max 0.4	Max 0.44	Max 0.3
Cu %	P %				
0.25-0.55	Max 0.035				

Method of deoxidation FF = fully killed steel

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

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

The S235J2W steels may show a Ni content of max. 0,65 %

The S235J2W 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.

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

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### S235J2W Steel Mechanical Properties

Grade	Min. Yield Strength Mpa						Tensile Strength MPa			Impact	
S235J2W	Nominal Thickness (mm)						Nominal Thickness (mm)			degree	J
Thick mm	$\leq 16$	$> 16$	$> 40$	$> 63$	$> 80$	$> 100$	$\leq 3$	$> 3 \leq 100$	$> 100 \leq 150$	-20	27
S235J2W	235	225	215	215	215	195	360-510	360-510	350-500		

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.

If S235J2W 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.

### S235J2W 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 S235J2W steel exporter and a steel Stockist in China. We keep more than 1000 tons S235J2W steel in stock every month. So, if you have any inquiry about S235J2W steel, if you are looking for a sincerely S235J2W steel supplier and want to get the competitive S235J2W steel price, please do not hesitate to contact us. We will offer you the high quality steel, reasonable price and short leadtime.

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