

ASTM A242 Type1,A242 Type1 steel,A242 Type1 grade,A242 Type1 steel grade, A242 Type1 steel plate,A242 Type1 steel supplier

A242 Type1 Steel Description

A242 Type1 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. A242 Type1 steel is the Equivalent grades as S355J2WP (1.8946) steel in EN 10025 - 5 : 2004 standard and FE510D1K1 steel in UNI standard and also E36WA4 steel in NFA 35-502 standard.

A242 Type1 Steel Delivery state

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

A242 Type1 Steel Application

Corrosion resistant steel plate A242 Type1 under standard ASTM is mainly used for container steel. Moreover, A242 Type1 steel with improved atmospheric corrosion resistance has a wide range of applications: architecture, smokestacks, fabrication, freight wagons, silos, pylons and bridges. A242 Type1 steel alloying with copper and chromium ensure the formation of a firmly adhering protective layer of rust which concurrently makes for an attractive appearance.

A242 Type1 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

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

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

The A242 Type1 steels may show a Ni content of max. 0,65 %

The A242 Type1 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.

A242 Type1 Steel Mechanical Properties

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Grade	Min. Yield Strength Mpa						Tensile Strength MPa			Impact	
	Nominal Thickness (mm)						Nominal Thickness (mm)			degree	J
Thick mm	≤16	>16	>40	>63	>80	>100	≤3	>3 ≤100	>100 ≤150	-20	27
		≤40	≤63	≤80	≤100	≤150					
A242 Type1	355	345	510-680	470-630		

If A242 Type1 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 ≥600 mm they apply to transverse samples.

A242 Type1 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 Internationl Co., Ltd is specialized in super thick atmospheric corrosion resistance of structural steel plate. Bebon Internationl 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 A242 Type1 steel exporter and a steel Stockist in china. We keep more than 1000 tons A242 Type1 steel in stock every month. So, if you have any inquiry about A242 Type1 steel, if you are looking for a sincerely A242 Type1 steel supplier and want to get the A242 Type1 steel price, please do not hesitate to contact us. Any need in A242 Type1 steel grade, please feel free to contact us by email or calling to us, we will supplier high quality A242 Type1 steel with competitive price to you soon.

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