

UNI Fe 510 C2K1; Fe 510 C2K1 steel; Fe 510 C2K1 steel plate; Fe 510 C2K1 steel grade; Fe 510 C2K1 steel supplier

1. Fe 510 C2K1 steel description

As a structural weathering steel, Fe 510 C2K1 steels have a super property. Fe 510 C2K1 steel chemical composition can increase resistance to atmospheric corrosion compared to other steels. This is because it forms a protective layer on Fe 510 C2K1 steel surface under the influence of the weather.

2. Fe 510 C2K1 steel Application range: Fe 510 C2K1 steel steel is used for various types of welded, bolted and riveted constructions e.g. steel frame structures, bridges, tanks and containers, exhaust systems, vehicles and equipment constructions.

3. Fe 510 C2K1 steel supply size

Thickness:2mm to 460mm

Width: 1500mm to 3200mm

Length: 6000mm to 12000mm

(other plate sizes and thicknesses available on request )

4. Fe 510 C2K1 steel deliver condition

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

5. Fe 510 C2K1 steel chemical composition(%)

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Tel: 0086-371-86151627

Fax: 0086-371-86011881

Skype:bebonsophia

Address: 2801 B#,INTERNATIONAL ENTERPRISE CENTER ,NONG YE ROAD ,ZHENGZHOU CITY OF HENAN PROVINCE, CHINA.

E-mail:bebonsophia@bebonchina.com

MSN:bebonsophia@hotmail.com

Web:http://www.bebonchina.com

C	Si	Mn	P	S	Cr	N	Cu	CEV
<b>max 0.16</b>	<b>Max 0.5</b>	<b>0.5 - 1.5</b>	<b>max 0.035</b>	<b>Max 0.035</b>	<b>0.4 - 0.8</b>	<b>max 0.009</b>	<b>0.25-0.55</b>	<b>Max 0.52</b>

## Note:

1. The steels may show a Ni content of max 0.65 %;
2. For long Fe 510 C2K1 steel, the **P** and **S** content can be 0.005% higher;
3. The Fe 510 C2K1 steel may contain max. 0.30 % Mo and max. 0.15 % Zr
4. It is permissible to exceed the specified values provided that for each increase of 0.001 % N, the P max. content will be reduced by 0.005 %; the N content of the ladle analysis, however, shall not be more than 0.012 %
5. 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.

## 6. Fe 510 C2K1 steel mechanical property

Nominal thickness (mm)	to 16	16-40	40-63	63-80	80-100	100-150
ReH - Minimum yield strength (MPa)	355	345	335	325	315	295
Nominal thickness (mm)	To 3		3-100		100-150	
Rm -Tensile strength (MPa)	510-680		470-630		450-600	
Nominal thickness (mm)	3-40		40-63		63-100	100-150
	22		21		20	18

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A - Minimum elongation $L_0 = 5,65 \sqrt{S_0}$ So (%)			
Nominal thickness (mm)	1.5 - 2	2-2.5	2.5-3
A - Minimum elongation $L_0 = L_0 = 80$ mm (%)	16	17	18
Temperature	-20	0	
Notch impact test. Min. absorbed energy	27		27

Henan BEBON international is an outstanding exporter and stockist in china, especially in Atmospheric Corrosion Resistant Steel, also named weathering steel. As our have a good relationship with per big steel mill, so we have Fe 510 C2K1 steel more than 10000 tons in stock. If you any need about Fe 510 C2K1 steel , whatever the specification, we also can meet your maximum request. More technology information, welcome to freely contact BEBON sales-team.

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