

ASTM A 622GR.A,B,C boilers and Pressure Vessels steels

Key words :

ASTM A 622GR.A,B,C steel plate/sheet, ASTM A 622GR.A,B,C steel plate/sheet, under ASTM standard, we can regard A 622GR.A,B,C steel plate/sheet for boilers and Pressure Vessels steels. ASTM A 622GR.A,B,C steel plate/sheet is for boilers and Pressure Vessels steels, it is a normalized steel plate and sheet which is mainly used for building pressure vessels and boilers and pipes for hot liquid.

If you are looking for Chinese A 622GR.A,B,C steel supplier, if you want to know A 622GR.A,B,C steel price, please be free to contact us

ASTM A622GR.A,B,C steel Chemical Composition % :

Main chemical composition in ASTM A622GR.A,B,C steel: Carbon max 0.18, Manganese from 0.90 to 1.70, Sulphur max 0.03, Phosphorus max 0.03, Silicon max 0.50, More detailed information, please refer to the flowing table:

Element	Max %	Element	max %
C	0.18	Cu	0.30
Si	0.50	Mo	0.08
Mn	0.90-1.70	N	0.02
P	0.03	Nb	0.05
S	0.03	Ni	0.50
AL	-	Ti	0.03
Cr	0.30	V	0.10
Nb+Ti+V	0.12		

ASTM A622GR.A,B,C steel Mechanical Properties

A622GR.A,B,C this material is mainly used to fabricate boiler and pressure vessel. So ,same the other boiler and pressure vessel using steel plate, this kind of steel has the good grain and Mechanical properties. It's yield strength is between 295- 355 MPa (there is different min strength point at the different thickness.) A622GR.A,B,C tensile strength is from 450MPa to 630MPa. (different min strength point at the different thickness.) More detailed information about ASTM A622GR.A,B,C steel Mechanical Properties , please refer to the following table:

Grade	Material	Thickness (mm)	Yield Strength MPa (min)	Tensile Strength MPa	Elongation % (min)
A 622GR.A,B, C	1.1106	≤ 16	355		
		16> to ≤35	355		
		35> to ≤50	345		
		50> to ≤70	325	490-630	22
		70> to ≤100	315	470-610	21
		100> to ≤150	295	450-590	21
		>150	1)	1)	1)

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ASTM A622GR.A,B,C impact test:

Type	Usual Delivery Condition	Nominal Thickness (mm)	Impact Energy KV min[J] at temperature [°C]									
			Longitudinal					Longitudinal				
			-50	-40	-20	0	+20	-50	-40	-20	0	+20
A 622GR.A,B,C	N	5-150	30	40	65	90	100	27	30	40	60	70

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