



ISO 1052 FE E 590 steel plate/sheet for general Construction steels

ISO 1052 FE E 590 steel plate/sheet, ISO 1052 FE E 590 steel plate/sheet, under EN standard, we can regard FE E 590 steel plate/sheet for general Construction steels. ISO 1052 FE E 590 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of EN FE E 590 steel. FE E 590 steel is according to ISO 1052 standard and it is equivalent to DIN17100:St60-2, NFA:A60-2 and UNI7070:Fe590 steel grades.

FE E 590 ISO 1052	Comparison of steel grades	
	ISO 1052:1990	FE 590-2
	DIN17100	ST60-2
	NFA 35-501	A60-2
	BS1449	-
	UNI7070	FE 590

Chemical analysis -% by mass of FE E 590 steel

Chemical elements	C _≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.	N max
FE E 590	-	-	-	-	0.045	0.045	0.012

Mechanical properties of FE E 590 steel

thickness	Yield Strength ReH [N/mm ²] transv.min.	Tensile Strength Rm [N/mm ²] transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy 1) Ch V complete sample longitud. min [J]
t ≤ 16mm	335			
t > 16mm	325			
t < 3mm		590-770		
t ≥ 3mm		570-710		
Up to 1.5mm			7	-
1.51-2.00mm			8	-
2.01-2.50mm			9	
2.51-2.99mm			10	
≥ 3mm			14	

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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

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