

ISO 1052 FE E 490 steel plate/sheet for general Construction steels

Key words :

[ISO 1052 FE E 490 steel plate/sheet](#), ISO 1052 FE E 490 steel plate/sheet, under ISO 1052 standard, we can regard FE E 490 steel plate/sheet for general Construction steels. ISO 1052 FE E 490 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of ISO 1052 FE E 490 steel.

Equivalent grade :

FE E 490 steel plate/sheet is in ISO 1052 standard. The comparison of steel grades is: ISO 1052 :1990 FE E 490, DIN17100 ST50-2, NFA 35-501 A50-2,BS1449,UNI7070 FE 490.

FE E 490 ISO 1052-2 Number: 1.0050	Comparison of steel grades	
	ISO 1052 :1990	FE E 490
	DIN17100	ST50-2
	NFA 35-501	A50-2
	BS1449	-
	UNI7070	FE 490

FE E 490 steel Chemical analysis -% by mass

Main chemical composition in ISO 1052 FE E 490 steel : Phosphorus max 0.045, Silicon max 0.045,please refer to the flowing table:

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.	N max
%,by mass	-	-	-	-	0.045	0.045	0.012

FE E 490 steel Mechanical properties

ISO 1052 FE E 490 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about ISO 1052 FE E 490 steel Mechanical Properties , please refer to the following table:

thickness	Yield Strength ReH [N/mm ²] transv.min.	Tensile Strength Rm [N/mm ²] transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	295 285			
t < 3mm t ≥ 3mm		490-600 470-610		-
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			11 12 13 14 18	-

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