

ISO 1052 FE E 690 steel plate/sheet for general Construction steels

Key words :

ISO 1052 FE E 690 steel plate/sheet, ISO 1052 FE E 690 steel plate/sheet, under MNC 850 E standard, we can regard FE E 690 steel plate/sheet for general Construction steels. ISO 1052 FE E 690 steel plate/sheet is for general Construction steels. The followings are the chemical composition and the mechanical properties of MNC 850 E FE E 690 steel. FE E 690 steel is according to ISO 1052 standard and it is equivalent to EN: Fe690-2, DIN17100:St70-2, NFA: A70-2 and ISO 1052:E360 steel grades.

Equivalent grade :

ISO 1052 FE E 690 steel plate/sheet is in MNC 850 E standard. The comparison of steel grades is: MNC 850 E:1990 FE E 690, DIN17100 ST60-2, NFA 35-501 A60-2, BS1449, UNI7070 FE 590.

FE E 690 ISO 1052	Comparison of steel grades	
	ISO 1052:1990	FE E 690
	DIN17100	ST70-2
	NFA 35-501	A70-2
	BS1449	-
	UNI7070	FE 690

FE E 690 steel Chemical analysis

Main chemical composition in ISO 1052 FE E 690 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
FE E 690	-	-	-	-	0.045	0.045	0.012

FE E 690 steel Mechanical properties

ISO 1052 FE E 690 is general Construction steels, The different thickness with different yield strength, tensile strength and fracture elongation. More detailed information about ISO 1052 FE E 690 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 Energy ¹)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	360 355			
t < 3mm t ≥ 3mm		690-900 670-830		- -
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			4 5 6 7 10	

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