

Fine-grain structural steels, normalised rolled steel BS1449 50E steel plate

50E steel plate, under Fine-grain structural steels, normalized BS1449 standard 50E steel plate, under Fine-grain structural steels, normalized BS1449 standard, we can regard 50E steel plate as Fine-grain structural steels, normalised rolled steels.

50E steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, 50E steel plate under BS1449 standard, it is normalized , fine grain structural steel which is regarded as other standards,like:DIN-StE355,EN-S355N and UNI-FeE355KGN.

50E BS1449 MATERIAL#1.0545	Comparison of steel grades	
	UNE36081	AE355KG/AE355KW
	DIN17102	STE355
	EN10111	S355N
	NFA 36-301	E355R
	UNI	Fe E 3555KG N

Chemical analysis -% by mass*

Chemical elements	C max	Si max	Mn	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
%by mass	0.20	0.50	0.90-1.65	0.030	0.025	0.55	0.30	0.50	0.12	0.05	0.02

Mechanical properties

thickness	Yield Strength ReH[N/mm2] transv.min.	TensileStrengthR m[N/mm2]transv.	Fracture Elongation[%]tr ansv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	355 345			+20 KV 31J 0 KV 27J -10 KV 24J -20 KV 20J -40 - -50 -
t < 3mm t ≥ 3mm		470-630		
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			22	

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