

Fine-grain structural steels, normalised rolled steel DIN 1614/2 TStE420 steel plate

TStE420 steel plate, under DIN 1614/2 standard TStE420 steel plate, under DIN 1614/2 standard, we can regard TStE420 steel plate as Fine-grain structural steels, normalised rolled steel
 TStE420 steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, TStE420 steel plate is under DIN 1614/2 standard equivalent to EN: S420NL, which with a minimum fracture elongation of 19% and the tensile strength of TStE420 is 520 to 680 MPa.

T StE 420 DIN17102 MATERIAL# 1.8912	Comparison of steel grades	
	UNE36081	AE 420 KT
	EN 10111	S420N
	UN	-
	NFA36 201	E420FP
	BS4360	-

TStE420 steel Chemical analysis -% by mass*

Chemical elements	C max	Si max	Mn max	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
% by mass	0.20	0.60	1.00-1.70	0.025	0.020	0.55	0.30	0.80	0.20	0.05	0.02

TStE420 steel Mechanical properties

thickness	Yield Strength R_{eH} [N/mm ²] transv.min.	Tensile Strength R_m [N/mm ²]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy $1Ch V$ complete samplelongitud. min [J]
≤ 16mm t > 16mm	420 400			
t < 3mm t ≥ 3mm		520-680		
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			19	+20 KV 40J 0 KV 34J -10 KV 30J -20 KV 27J -30 KV 23J -40 KV 20J -50 KV 16J

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