

DIN 17102 TStE285 steel plate/sheet for fine-grain structural steels, normalised rolled steels

DIN 17102 TStE285 steel plate/sheet, DIN 17102 TStE285 steel plate/sheet, under DIN standard, we can regard TStE285 steel plate/sheet as fine-grain structural steels, normalised rolled steels. DIN 17102 TStE285 is mainly used as fine-grain structural steels, normalised rolled steels.

DIN 17102 TStE285 steel plate/sheet is a hot rolled structural steels, which technical delivery conditions for normalized or normalized rolled in weldable fine grain structural steel grade. It is also regarded as EN10025:S275NL, UNE36081:AE285KT, UN:FeE275KTN and BS:43EE.

T StE 285 DIN17102 MATERIAL# 1.0491	Comparison of steel grades	
	UNE36081	AE 285 KT
	EN 10025-3	S275NL
	UN	Fe E 275 KT N
	BS4360	43 EE

Chemical analysis -% by mass of DIN TStE285 steel

Chemical elements	C max	Si max	Mn max	P max	S max.	Cu max	Cr max	Ni max	V max	Nb max	Al min
TStE285	0.16	0.40	0.50-1.50	0.025	0.020	0.55	0.30	0.30	0.05	0.05	0.02

Mechanical properties of DIN TStE285 steel

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	275			+20 KV 40J
t > 16mm	265			0 KV 34J
t < 3mm		370-510		-10 KV 30J
t ≥ 3mm				-20 KV 27J
Up to 1.5mm			24	-30 KV 23J

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1.51-2.00mm				-40	KV 20J
2.01-2.50mm				-50	KV 16J
2.51-2.99mm					
≥ 3mm					

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