

Fine-grain structural steels, normalised rolled steel ASTM-SAE A255Gr.Dsteel plate

A255Gr.D steel plate, under ASTM-SAE standard A255Gr.D steel plate, under ASTM-SAE standard, we can regard A255Gr.D steel plate as Fine-grain structural steels, normalised rolled steel A255Gr.Dsteel plate is one mainly of Fine-grain structural steels, normalised rolled steel,A255Gr.D steel plate is under ASTM-SAE standard equivalent to EN: A255Gr.D,which with a minimum elongation of 19%.

A255Gr.D ASTM-SAE MATERIAL#1.8902	Comparison of steel grades	
	UNE36081	AE420KG/AE420KW
	EN 10111	S420N
	NFA 36-201	E420R
	BS4036	-
	DIN17102	StE420

A255Gr.D steel plate Chemical composition -% 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	0.60	1.00-1.70	0.030	0.025	0.55	0.30	0.50	0.12	0.05	0.02

A255Gr.D steel Mechanical properties

thickness	Yield StrengthReH[N/mm²] transv.min.	TensileStrengthRm[N/mm²]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
≤ 16mm	420			+20 KV 31J 0 KV 27J -10 KV 24J -20 KV 20J -40 - -50 -
t >16mm	400			
t < 3mm		520-680		
t ≥ 3mm				
Up to 1.5mm			19	
1.51-2.00mm				
2.01-2.50mm				
2.51-2.99mm				
≥ 3mm				

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