

Fine-grain structural steels, normalised rolled steel UNI5867 FeE420KGN steel plate

FeE420KGN steel plate, under UNI5867 standard FeE420KGN steel plate, under UNI5867 standard, we can regard FeE420KGN steel plate as Fine-grain structural steels, normalised rolled steel FeE420KGN steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, FeE420KGN steel plate is under UNI5867 standard equivalent to EN: S420N, which with a minimum elongation of 19%.

FeE420KGN UNI5867 MATERIAL#1.8902	Comparison of steel grades	
	UNE36081	AE420KG/AE420KW
	EN 10111	S420N
	DIN17102	StE420
	BS4036	-
	UN	FeE420KGN

FeE420KGN 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

FeE420KGN steel Mechanical properties

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 V complete sample longitud. min [J]
t ≤ 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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