

**Fine-grain structural steels, normalised rolled steel UNI5867 FeE275KGN steel plate**

FeE275KGN steel plate, under UNI5867 standard FeE275KGN steel plate, under UNI5867 standard, we can regard FeE275KGN steel plate as Fine-grain structural steels, normalised rolled steel FeE275KGN steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, FeE275KGN steel plate is under UNI5867 standard equivalent to DIN:StE285, which with a minimum impact energy of 20J at temperatures not lower than -20 degree and the tensile strength of FeE275KGN is 370 to 510MPa

FeE275KGN UNI5867 MATERIAL# 1.0490	Comparison of steel grades	
	UNE36081	AE285KG/AE285KW
	DIN17102	STE285
	NFA 36-207	-
	EN 10111	S275N

**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	0.18	0.40	0.50-1.50	0.030	0.025	0.55	0.30	0.30	0.05	0.05	0.02

**Mechanical properties**

thickness	Yield Strength ReH[N/mm <sup>2</sup> ] transv.min.	TensileStrengthRm[N/mm <sup>2</sup> ]transv.	Fracture Elongation[%]transv. min.	Notch Impact Energy1)Ch Vcomplete samplelongitud. min [J]
t ≤ 16mm t > 16mm	275 265			31J +20 KV
t < 3mm t ≥ 3mm		370-510		27J 0 KV
Up to 1.5mm 1.51-2.00mm 2.01-2.50mm 2.51-2.99mm ≥ 3mm			24	24J -10 KV 20J -20 KV -40 - -50 -

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