

Fine-grain structural steels, normalised rolled steel NFA36-301 E420R steel plate

E420R steel plate, under NFA36-301 standard E420R steel plate, under NFA36-301 standard, we can regard E420R steel plate as Fine-grain structural steels, normalised rolled steel E420R steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, E420R steel plate is under NFA36-301 standard equivalent to EN: E420R, which with a minimum elongation of 19%.

E420R NFA36-301 MATERIAL#1.8902	Comparison of steel grades	
	UNE36081	AE420KG/AE420KW
	EN 10111	S420N
	DIN17102	E420R
	BS4036	-
	UN	FeE420KGN

E420R 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

E420R 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 sample longitud. min [J]
$t \leq 16mm$	420			+20 KV 31J 0 KV 27J -10 KV 24J -20 KV 20J -40 - -50 -
$t > 16mm$	400			
$t < 3mm$		520-680		
$t \geq 3mm$			19	
Up to 1.5mm				
1.51-2.00mm				
2.01-2.50mm				
2.51-2.99mm				
$\geq 3mm$				

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