

**Fine-grain structural steels, normalised rolled steel DIN 1614/2 StE420steel plate**

StE420steel plate, under DIN 1614/2 standard StE420 steel plate, under DIN 1614/2 standard, we can regard StE420 steel plate as Fine-grain structural steels, normalised rolled steel StE420steel plate is one mainly of Fine-grain structural steels, normalised rolled steel,StE420 steel plate is under DIN 1614/2 standard equivalent to EN: StE420,which with a minimum elongation of 19%.

<b>STE420 DIN17102 MATERIAL#1.8902</b>	<b>Comparison of steel grades</b>	
	UNE36081	<b>AE420KG/AE420KW</b>
	<b>EN 10111</b>	<b>S420N</b>
	NFA 36-201	<b>E420R</b>
	BS4036	-
	UN	-

**StE420 steel plate Chemical composition -% by mass\***

<b>Chemical elements</b>	<b>C max</b>	<b>Si max</b>	<b>Mn</b>	<b>P max</b>	<b>S max.</b>	<b>Cu max</b>	<b>Cr max</b>	<b>Ni max</b>	<b>V max</b>	<b>Nb max</b>	<b>Al min</b>
<b>%,by mass</b>	<b>0.20</b>	<b>0.60</b>	<b>1.00-1.70</b>	<b>0.030</b>	<b>0.025</b>	<b>0.55</b>	<b>0.30</b>	<b>0.50</b>	<b>0.12</b>	<b>0.05</b>	<b>0.02</b>

**StE420 steel Mechanical properties**

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

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