

**Fine-grain structural steels, normalised rolled steel ASTM-SAE A633Gr.A steel plate**

A633Gr.A steel plate, under ASTM-SAE standard A633Gr.A steel plate, under ASTM-SAE standard, we can regard A633Gr.A steel plate as Fine-grain structural steels, normalised rolled steel  
 A633Gr.A steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, A633Gr.A steel plate is under ASTM-SAE standard equivalent to DIN:A633Gr.A, which with a minimum impact energy of 20J at temperatures not lower than -20 degree and the tensile strength of A633Gr.A is 370 to 510MPa

A633Gr.A ASTM-SAE MATERIAL# 1.0491	Comparison of steel grades	
	EN10111	S275NL
	DIN1614/2	TStE285
	NFA 36-207	A633Gr.A
	UN	Fe E 275KG N

**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 -

**Bebon steel — The most professional exporter on shipbuilding steel**

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:http://www.shipbuilding-steel.com

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.