

**BEBON**

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Henan BEBON international co.,ltd**Fine-grain structural steels, normalised rolled steel ASTM-SAE A738Gr.C
A738Gr.C/A738Gr.C steel plate**

A738Gr.C steel plate, under ASTM-SAE standard A738Gr.C steel plate, under ASTM-SAE standard, we can regard A738Gr.C steel plate as Fine-grain structural steels, normalised rolled steel. A738Gr.C steel plate is one mainly of Fine-grain structural steels, normalised rolled steel, A738Gr.C steel plate is under ASTM-SAE standard equivalent to EN: S420NL, which with a minimum fracture elongation of 19% and the tensile strength of A738Gr.C is 520 to 680 MPa.

A738Gr.C ASTM-SAE MATERIAL# 1.8912	Comparison of steel grades	
	UNE36081	AE 420 KT
	EN 10111	S420N
	DIN17102	T StE 420
	NFA36 201	E420FP
	BS4360	-

A738Gr.C steel Chemical analysis -% by mass*

Chemical elements	C max	Si max	Mn max	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	0.025	0.020	0.55	0.30	0.80	0.20	0.05	0.02

A738Gr.C 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]
≤ 16mm t > 16mm	420 400			+20 KV 40J 0 KV 34J -10 KV 30J -20 KV 27J -30 KV 23J -40 KV 20J -50 KV 16J
t < 3mm t ≥ 3mm		520-680		
Up to 1.5mm			19	
1.51-2.00mm				
2.01-2.50mm				
2.51-2.99mm				
≥ 3mm				

Bebon steel — The most professional exporter on shipbuilding steel

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