

S355N steel is a structural steel grade. S means **structural steel**, 355 means min yield strength for thickness less 16mm expressed in Mpa, N mean the delivery condition.

Bebon steel could provide max thickness to 350mm by using ingot. Max width 3800mm, we also could do the UT test, impact test, Chemical analysis, mechanical test, and Simulated may treatment according to our customer requirement.

About S355N steel detail information, please refer to technical date in following.

Comparison of steel grades

S355N	UNE36081	AE355KG/AE355KW
EN 10025-3	DIN17102	STE355
MATERIAL#1.0545	NFA 36-201	E355R
	BS4036	-
	UN	Fe E 3555KG N

S355N structural steel Chemical analysis -% by mass*

Chemical elements	C	Si	Mn	P	S	Cu	Cr	Ni	V	Nb	Al
	max	max		max	max.	max	max	max	max	max	min
%by mass	0.20	0.50	0.90-1.65	0.030	0.025	0.55	0.30	0.50	0.12	0.05	0.02

S355N 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 $1)Ch V$ complete sample longitud. min [J]
$t \leq 16mm$	355			+20 KV 31J
$t > 16mm$	345			0 KV 27J
$t < 3mm$		470-630		-10 KV 24J
$t \geq 3mm$				-20 KV 20J
Up to 1.5mm				-40 -
1.51-2.00m			22	-50 -
m				
2.01-2.50m				
m				
2.51-2.99m				
m				
$\geq 3mm$				

BEBON international — We are specialized in hot rolled steel plate/coil.

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