

Normalized welded low alloy **steel plate S420N**,it shall be done low temperature charpy_V impacting test under **EN10025 standard**,the temperature shall be minus 20 centi degree,and the impacting energy shall be min 27J.

Now Bebon industrial list chemical composition and mechanical property for **S420N steel plate**as belows,for long products the P and S content can be 0.005% higher than the values in the below sheet.Our mill also can offer customers the chemical composition limited specially by customers' requested.

Comparison of steel grades

| S420N | UNE36081 | AE420KG/AE420KW |
|---------------------------------|------------|------------------------|
| EN 10111 MATERIAL#1.8902 | DIN17102 | STE420 |
| | NFA 36-201 | E420R |
| | BS4036 | - |
| | UN | - |

S420N steel plate Chemical composition -% 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 | 0.60 | 1.00-1.70 | 0.030 | 0.025 | 0.55 | 0.30 | 0.50 | 0.12 | 0.05 | 0.02 |

S420N steel Mechanical properties

| thickness | Yield Strength R_{eH} [N/mm ²] transv.min. | TensileStrength R_m [N/mm ²] transv. | Fracture Elongation[%] transv. min. | Notch Impact Energy $1)Ch$ Vcomplete samplelongitud. min [J] |
|-------------|---|---|--|---|
| t ≤ 16mm | 420 | | | +20 KV 31J |
| t >16mm | 400 | | | 0 KV 27J |
| t < 3mm | | 520-680 | | -10 KV 24J |
| t ≥ 3mm | | | | -20 KV 20J |
| Up to 1.5mm | | | | -40 - |
| 1.51-2.00m | | | | -50 - |
| m | | | 19 | |
| 2.01-2.50m | | | | |
| m | | | | |
| 2.51-2.99m | | | | |
| m | | | | |
| ≥ 3mm | | | | |

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

Tel:0086-371-86151827 86151627

E-mail:BB@Bebonchina.com

Fax: 0086-371-86011881

Web:<http://www.bebonchina.com>

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