

Under **EN10025-3 standard, S460NL steel** Makes mechanical device and other structural elements like drilling machine, power shovel, electricity drive wheel counter- mine trolley, mineral product automobile, excavator, car loader, bulldozer, each kind of hoist crane, coal mine hydraulic pressure support which were widely used in workshop, the general construction and each kind of project machinery, like the mine and each kind of project construction.

| | | Comparison of steel grades | |
|-------------------|--|-----------------------------------|---------------------|
| S460NL | | UNE36081 | AE 460 KT |
| | | DIN17102 | T StE 460 |
| EN 10025-3 | | UN | FE E 460KT N |
| | | NFA36 201 | E460FP |
| | | BS4360 | 55EE |

S460NL steel plate 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 | max | min |
| %by mass | 0.20 | 0.60 | 1.00-1.7 0 | 0.02 5 | 0.020 | 0.55 | 0.30 | 0.80 | 0.20 | 0.05 | 0.02 |

S460NL steel sheet Mechanical properties

| thickness | Yield Strength R_{eH} [N/mm ²] | TensileStrength R_m [N/mm ²] | Fracture Elongation[%]transv. min. | Notch Impact Energy $1)Ch V$ complete samplelongitud. min [J] | |
|----------------|--|--|------------------------------------|---|--------|
| | mm ² | m[transv. min.] | sv. min. | Energy | Impact |
| $t \leq 16$ mm | 460 | | | +20 | KV 40J |
| $t > 16$ mm | 440 | | | 0 | KV 34J |
| $t < 3$ mm | | 540-720 | | -10 | KV 30J |
| Up to 1.5mm | | | 17 | -20 | KV 27J |
| 1.51-2.00m | | | | -30 | KV 23J |
| m | | | | -40 | KV 20J |
| 2.01-2.50m | | | | -50 | KV 16J |
| m | | | | | |

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

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2.51-2.99m

m

≥ 3mm

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