



EN 10083 C45 steel plate high carbon steel

C45 steel plate, EN 10083 C45 steel plate, under EN 10083 standard, we can regard C45 steel plate as high carbon steel.

C45 steel plate is one mainly of high carbon steel,EN 10083 C45 steel plate is for quenching and tempering. Technical delivery conditions for non alloy steels,these steels are for general engineering purposes

| C45 EN 10083-2 Number:1.0503 | Comparision of steel grades | |
|------------------------------------|-----------------------------|-----------|
| | JIS G 4051 | S 45 C |
| | DIN 17200 | C 45 |
| | NFA 33-101 | AF65-C 45 |
| | UNI 7846 | C 45 |
| | BS 970 | 070 M 46 |
| | UNE 36011 | C 45 k |
| | SAE J 403-AISI | 1042/1045 |

Chemical Composition of EN C45 steel

| Grade | C(%)min-max | Si(%)min-max | Mn(%)min-max | P(%)max | S(%)max | Cr(%)min-max |
|-------|-------------|--------------|--------------|---------|---------|--------------|
| C45 | 0.42-0.50 | 0.15-0.35 | 0.50-0.80 | 0.025 | 0.025 | 0.20-0.40 |

Mechanical Properties of EN C45 steel

| Grade | Condition | Yield Strength R ^o (Mpa) | Tensile Strength Rm (Mpa) | Elon-gation A5(%) | Hardness HRC | Quenchi ng Temperature (°C) | Benda-bility | Nominal Thickness,t | |
|-------|-----------|-------------------------------------|---------------------------|-------------------|--------------|-----------------------------|--------------|---------------------|-------|
| | | | | | | | | 1.95mm≤t≤10.0 mm | |
| | Rolled | 460 | 750 | 18 | 58 | 820 | Min.reco-mm | 2.0 | 1.0×t |

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 http://www.bebonchina.com

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



BEBON
BebonChina.com

Henan BEBON international co.,ltd

| | | | | | | | | | |
|-----|---|-----|---------------------|----|----|-----|---|------------|--|
| C45 | Annealed Water-quenched Oil quenched | 330 | 540 2270 1980 | 30 | 55 | 860 | ended Bending radius ($\leq 90^\circ$) | $\times t$ | |
|-----|---|-----|---------------------|----|----|-----|---|------------|--|

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

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