



CR500LA-GI

Steels with high yield strength
for cold forming – micro-alloyed

Material no. -

Material data sheet

Surface finish

Thickness ranges

MB 1,20 – 2,00

Mechanical properties²⁾

Yield strength R_e in MPa

500 – 620

Tensile strength R_m in MPa

560 – 700

Total elongation A_{80} in %

≥ 14

Available dimensions

Thickness in mm width in mm

1,20 – 2,00 1.100 – 1.500³⁾

3) Further widths on request

2) Test direction is in longitudinal rolling direction.

Chemical Composition¹⁾

(in percent by weight)

| | min. in % | max. in % |
|----|-----------|-----------|
| C | | 0,15 |
| Si | | 0,60 |
| Mn | | 1,70 |
| P | | 0,030 |
| S | | 0,025 |
| Ti | | 0,15 |
| Al | 0,015 | |
| Nb | | 0,10 |

1) Heat analysis

Commitments regarding certain properties or a certain purpose of use require written arrangements. Technical changes as well as typesetting and printing errors reserved.