

ARMOX™ 440T

CHEMICAL COMPOSITION

(ladle analysis)

| C | Si | Mn | P | S | Cr | Ni | Mo | B |
|------|-----------|-----|-------|-------|-----|-----|-----|-------|
| max | | max | max | max | max | max | max | max |
| % | % | % | % | % | % | % | % | % |
| 0,21 | 0,1 – 0,5 | 1,2 | 0,010 | 0,010 | 1,0 | 2,5 | 0,7 | 0,005 |

The steel is grain-refined.

MECHANICAL PROPERTIES

| Hardness | Charpy-V –40°C | Yield strength | Tensile strength | Elongation |
|----------|--|-------------------------|------------------|--------------------|
| HBW | 10 x 10 mm test specimen ²⁾ | R _p 0,2 N/mm | Rm N/mm | A 5% A 50% |
| 420–480 | Min. 30 Joule ¹⁾ | Min. 1100 | 1250–1550 | Min. 10 Min. 12 |

¹⁾ Average of three tests. Transverse to rolling direction.
Single value min 70% of specified average.

²⁾ For plate thicknesses under 12 mm subsize Charpy V-specimens are used. The specified minimum value is then proportional to the specimens cross-section.

TESTING

| | | |
|-----------------------|---------------|---|
| Brinell hardness test | EN ISO 6506-1 | Each heat treatment individual |
| Charpy impact test | EN 10 045-1 | Each heat and thickness (thickness >4 mm) |
| Tensile testing | EN 10 002-1 | Each heat and thickness |

DELIVERY CONDITION

Quenched and tempered.

DIMENSIONS

ARMOX 440T is supplied in plate thicknesses 4–30 mm. More detailed information on dimensions is provided in General Information brochure.

TOLERANCES

Dimensional tolerances according to EN 10 029 excluding thickness tolerances
– Flatness tolerances according to class N or according to special agreement.
– Thickness tolerances:
Other thickness tolerances by special agreement.

| Plate thickness in mm | Standard Tolerance in mm | | By special agreement Tolerances in mm | |
|--------------------------|-----------------------------|------|--|------|
| | <13,0 | –0,0 | +0,8 | –0,2 |
| 13< 20,0 | –0,0 | +1,0 | –0,2 | +0,8 |
| 20- 30,0 | –0,0 | +1,2 | –0,2 | +1,0 |

SURFACE CONDITION

According to EN 10 163-2 Class B Subclass 3.

GENERAL TECHNICAL DELIVERY CONDITION

According to EN 10 021 and EN 10 204. Unless otherwise agreed, inspection documents are issued in English with certificates of 3.1B type.

HEAT TREATMENT AND FABRICATION

ARMOX 440T may not be heated above 180°C (360°F) if guaranteed hardness is to be maintained. For further information on machining, cutting and welding, please contact us.

Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration. Our Technical Customer Service Department will provide further information on request.

