

ARMOX™ 300T

(ARMOX 300S)

CHEMICAL COMPOSITION

(ladle analysis)

C	Si	Mn	P	S	Cr	Mo	B
max		max	max	max	max	max	max
%	%	%	%	%	%	%	%
0,20	0,1 – 0,4	1,6	0,020	0,010	0,5	0,7	0,005

The steel is grain-refined.

MECHANICAL PROPERTIES

Hardness HBW	Charpy-V –40°C 10 x 10 mm test specimen ²⁾	Yield strength R _p 0,2 N/mm	Tensile strength Rm N/mm	Elongation A 5% A 50%
280–340	Min. 40 Joule ¹⁾	Min. 850	900–1100	Min. 12 Min. 16

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 300T is supplied in plate thicknesses 3–50 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 +0,6 or +/-0,4
13< 20,0	–0,0 +1,0	–0,2 +0,8 or 0,5
20< 40,0	–0,0 +1,2	–0,2 +1,0 or 0,6
40 – 50,0	–0,0 +1,6	–0,3 +1,3 or 0,8

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 300T may not be heated above 580°C (1075°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.

