PRELIMINARY
DATA SHEET

1998-10-10

ARMOX™ 340T

CHEMICAL COMPOSITION
(ladle analysis)

C max %	Si %	Mn max %	P max %	S max %	Cr max %	Ni max %	Mo max %	B max %
0,21	0,1 – 0,5	1,3	0,015	0,010	1,0	2,5	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_p0,2 N/mm	Tensile strength Rm N/mm	Elongation A 5%	A 50%
320–380	Min 40 Joule[1]	Min. 950	1000–1200	Min. 12	Min. 14

[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

Test	According to standard	Test frequency
Brinell hardness test	EN 10 003-1	Each heat treatment individual
Charpy impact test	EN 10 045-1	Each heat treatment individual
Tensile testing	EN 10 002-1	Each heat treatment individual

DELIVERY CONDITION

Quenched and tempered.

DIMENSIONS

ARMOX 340T is supplied in plate thicknesses 5–50 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.
– Thickness tolerances:

Plate thickness in mm	Tolerance in mm for respective plate width. W ≤ 2500	W > 2500
- 12,9	–0,0+0,8	–0,0+1,0
13- 19,9	+1,0	+1,2
20- 29,9	+1,2	+1,4
30- 39,9	+1,4	+1,6
40- 50,0	+1,8	+2,0

Other thickness tolerances by special agreement.

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 340T may not be heated above 550°C (1020°F) if guaranteed hardness is to be maintained. For further information on machining, cutting and welding, please contact us.

Appropriate health and saftey 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.

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