

Data Sheet: ARMOX 500T

PROTECTION PLATE

Chemical Composition	С	Si	Mn	P	S	Cr	Ni	Mo	В	
(ladle analysis)	max	max	max	max	max	max	max	max	max	
	%	%	%	%	%	%	%	%	%	
	0,32	0,1 - 0,4	1,2	0,015	0,010	$1,0^{1)}$	$1,8^{1)}$	0,7	0,005	
	The steel is grain-refined. 1) For plate thicknesses >70 mm Cr \leq 1,5 and Ni \leq 3,5									
Mechanical Properties	Hardness HBW 480 - 540	10 x 10 test specimen ²⁾			Yield strength Rp 0,2 N/mm ² Min. 1250		Rm N	Tensile Strength Elongation Rm N/mm² A5% 50% 1450 - 1750 Min. 8 Min. 1		50%
	 Average of three tests. Transverse to rolling direction. Single value min 70% of specified average. 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 hard Charpy imp Tensile testii Ultrasonic te	act test EN i	ISO 6506-1 Each heat treatment individual 10 045-1 Each heat and thickness >4 mm 10 002-1 Each heat and thickness <20 mm 10 160 Each plate in thickness 60 - 150 mm							
Delivery Condition	Quenched and tempered.									
Dimensions	ARMOX 500T is supplied in plate thicknesses 3 - 150 mm. Plate thickness ≥60 mm are supplied with mill edge or by special agreement only.									
Tolerances	Dimensional tolerances according to EN 10 029 excluding thickness tolerances - Thickness tolerances:									
	Plate thicks in mm < 13 13 < 20		dard rances in 1 + 0,8 + 1,0	nm						

Other thickness tolerances by special agreement.

Dimensional tolerances for plate with mill edge according to special agreement. Flatness tolerances according to class N or according to special agreement.

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



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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 500T may not be heated above 200°C (400°F) if guaranteed hardness is to be maintained. For further information on machining, cutting and welding, please see special brochure or 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.



