

Data Sheet: ARMOX 440T

PROTECTION PLATE

Chemical Composition (ladle analysis)	C	Si	Mn	P	S	Cr	Ni	Mo	B														
	max	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 ¹⁾			Yield strength		Tensile Strength		Elongation														
	HBW	10 x 10 test specimen ²⁾			Rp 0,2 N/mm²		Rm N/mm²		A5% 50%														
	420 - 480	Min. 35 Joule			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 <60 mm																			
Delivery Condition	Quenched and tempered.																						
Dimensions	ARMOX 440T is supplied in plate thicknesses 4 - 30 mm.																						
Tolerances	Dimensional tolerances according to EN 10 029 excluding thickness tolerances																						
	- Thickness tolerances:																						
	<table><tr><td>Plate thickness</td><td colspan="2">Standard</td></tr><tr><td>in mm</td><td colspan="2">Tolerances in mm</td></tr><tr><td>< 13</td><td>-0,0</td><td>+ 0,8</td></tr><tr><td>13 < 20</td><td>-0,0</td><td>+ 1,0</td></tr><tr><td>20 - 30</td><td>-0,0</td><td>+ 1,2</td></tr></table>									Plate thickness	Standard		in mm	Tolerances in mm		< 13	-0,0	+ 0,8	13 < 20	-0,0	+ 1,0	20 - 30	-0,0
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in mm	Tolerances in mm																						
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20 - 30	-0,0	+ 1,2																					
Other thickness tolerances by 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 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.