ARMOX®
PROTECTION PLATE

Data Sheet: ARMOX 600T

PROTECTION PLATE

Chemical Composition
(ladle analysis)

C max %	Si max %	Mn max %	P max %	S max %	Cr max %	Ni max %	Mo max %	B max %
0,47	0,1 - 0,7	1,0	0,010	0,005	1,5	3,0	0,7	0,005

The steel is grain-refined.

Mechanical Properties

Hardness HBW	Charpy-V -40°C[1]	Yield strength[3]	Tensile Strength[3]	Elongation[3]
570 - 640	10 x 10 test specimen Min. 12 Joule	Rp 0,2 N/mm²	Rm N/mm²	A5%
		Typical 1500	Typical 2000	Typical 7

[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
[3] The value will not be reported on the Test Certificate.

Testing

Brinell hardness test	EN ISO 6506-1	Each heat treatment individual
Charpy impact test	EN 10 045-1	Each heat and thickness
Tensile testing	-	Not tested on a regular basis.
Ultrasonic testing	EN 10 160	Each plate in thickness 60 - 100 mm

Delivery Condition

Quenched and tempered.

Dimensions

ARMOX 600T is supplied in plate thicknesses 5 - 100 mm. Plate thicknesses ≥ 25 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 thickness in mm	Standard Tolerances in mm	
< 13	-0,0	+ 0,6
13 < 20		+ 0,8
20 < 40		+ 1,0
40 < 60		+ 1,4
60 < 80		+ 1,6
80 - 100		+ 2,0

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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SSAB OXELÖSUND

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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 600T may not be heated above 180°C (360°F) if guaranteed hardness is to be maintained. For further information on machining, bending, 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.

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