ARMOX®
PROTECTION PLATE

Data Sheet: ARMOX 370T Class 2

PROTECTION PLATE

Chemical Composition (ladle analysis)

C max %	Si max %	Mn max %	P max %	S max %	Cr max %	Ni max %	Mo max %	B max %
0,32	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 > 100 mm Cr ≤ 1,5 and Ni ≤ 3,5

Mechanical Properties

Plate thickn. mm	Hardness HBW	Charpy-V -40°C[1)] 10 x 10 test specimen	Yield strength[3)] Rp 0,2 N/mm²	Tensile Strength[3)] Rm N/mm²	Elongation[3)] A5%	50%
3 - 150	280 - 330	Min. 40 Joule	Min. 800	900-1100	Min. 13	Min. 15

[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 >4 mm
Tensile testing	EN 10 002-1	Each heat and thickness <60 mm
Ultrasonic testing	EN 10 160	Each plate in thickness 60 - 150 mm

Delivery Condition

Quenched and tempered.

Dimensions

ARMOX 370T Class 2 is supplied in plate thicknesses 3 - 150 mm.

Tolerances

Dimensional tolerances according to EN 10 029 excluding thickness tolerances
- Thickness tolerances:

Plate thickness in mm	Standard Tolerances in mm	
< 13	-0,0	+ 0,8
13 < 20		+ 1,0
20 < 40		+ 1,2
40 < 60		+ 1,6
60 < 80		+ 2,0
80 < 110		+ 2,4
110 - 150		+ 3,0

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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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 370T Class 2 may not be heated above the temperature listed below if guaranteed hardness is to be maintained.

	Thickness range	Max heating temperature
Class 2	3 - 150 mm	600°C

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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