

ARMOX[®] 560T

(ARMOX 560S)

CHEMICAL COMPOSITION

(ladle analysis)

C	Si	Mn	P	S	Cr	Ni	Mo	B
max		max	max	max	max	max	max	max
%	%	%	%	%	%	%	%	%
0,37 ¹⁾	0,1 – 0,7	1,2	0,012	0,005	1,0 ¹⁾	1,8 ¹⁾	0,7	0,005

The steel is grain-refined.

¹⁾ For plate thicknesses > 30 mm C ≤ 0,46, Cr ≤ 1,5 and Ni ≤ 2,8

MECHANICAL PROPERTIES

Hardness	Charpy-V –40°C ¹⁾	Yield strength	Tensile strength	Elongation
HBW	10x10 test specimen ²⁾	Rp0,2 N/mm ²	Rm N/mm ²	A5% A50%
530–590	Min. 15 Joule	Min. 1300	1600–1900	Min. 7 Min. 9

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
Tensile testing	EN 10 002-1	Each heat and thickness (thickness <20 mm)
Ultrasonic testing	SEL 072/077 CL. 3	Each plate in thickness 60–100 mm

DELIVERY CONDITION

Quenched and tempered.

DIMENSIONS

ARMOX 560T is supplied in plate thicknesses 5–100 mm. Plate thicknesses ≥ 25 mm are supplied with mill edge or by special agreement only. More detailed information on dimensions is provided in our General Information brochure.

TOLERANCES

Dimensional tolerances according to EN 10 029 excluding thickness tolerances

– Thickness tolerances:

Plate thickness in mm	Standard Tolerances in mm	By special agreement Tolerances in mm
< 13	-0,0 + 0,6	-0,2 +0,4
13 < 20	+ 0,8	-0,2 +0,6
20 < 40	+ 1,0	-0,2 +0,8
40 < 60	+ 1,4	-0,3 +1,1
60 < 80	+ 1,6	-0,3 +1,3
80 - 100	+ 2,0	-0,4 +1,6

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 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 560T may not be heated above 200°C (400°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 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.

