

GARBAFLEX 75

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Flat and shaped wire

GARBAFLEX 75 has a uniform microstructure of tempered martensite. A special heat treatment process has made it possible to produce a material sufficiently ductile for coiling on edge without fracture.

CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	Cr (%)	P max. (%)	S max. (%)
0.60 - 0.80	0.10 - 0.30	0.55 - 0.90	0.20	0.035	0.035

MECHANICAL PROPERTIES

FOR FLAT ROLLED WIRE

Width (mm)	Tolerance (\pm mm)
1.00 - 5.00	0.050
5.01 - 8.01	0.070
8.01 - 10.00	0.100

Thickness (mm)	Tolerance (\pm mm)	Tensile Strength (N/mm ²)	Hardness
0.30 - 0.80	0.013	1720 - 1860	69 - 72 HR30N
0.81 - 1.00	0.019	1720 - 1860	69 - 72 HR30N
1.01 - 1.60	0.025	1480 - 1625	46 - 49 HRC
1.61 - 2.30	0.050	1480 - 1625	46 - 49 HRC

FOR SHAPED WIRE

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Width (mm)	Tolerance (\pm mm)
-1.50	0.020
1.51 - 3.00	0.030
3.01 - 5.00	0.040
5.01 - 7.00	0.050
7.01 -	0.060

MICROSTRUCTURE

Tempered martensite with no ferrite.

EXECUTION

Rolled on 2 sides (flat).
Rolled on 4 sides (shaped).
Profile drawn.

CAMBER

Max. 4 mm measured on 1 m length.

SURFACE CONDITIONS

SURFACE

White polished or oxide.
Surface defects max. 1% of thickness.

PHYSICAL PROPERTIES

Density: 7.95 kg/dm³.

E AND G MODULUS OF ELASTICITY

206 kN/mm²

E AND G MODULUS OF SHEAR

79.5 kN/mm²

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STANDARDS

NEAREST EQUIVALENT STEEL GRADES

EN/DIN 1070, AISI/SAE 1070

NEAREST EQUIVALENT STANDARDS

EN 10270-1

ADDITIONAL

ADDITIONAL INFORMATION

Decarburization

No total decarburisation. Partial decarburisation (no continuous zones) max. 1.2% of a corresponding round wire dimension.