

# 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 <sup>2</sup> )	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/dm<sup>3</sup>.

### E AND G MODULUS OF ELASTICITY

206 kN/mm<sup>2</sup>

### E AND G MODULUS OF SHEAR

79.5 kN/mm<sup>2</sup>

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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.