

# GARBAFLEX 188L

Flat and shaped wire

GARBAFLEX 188L is an austenitic stainless wire, supplied in the cold rolled or annealed condition.

## CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	P max. (%)	S max. (%)	Cr (%)	Ni (%)
0.09	1.00	2.00	0.040	0.015	18.00 - 20.00	8.50 - 10.00

## MECHANICAL PROPERTIES

### Tensile strength

As cold rolled max. 1850 N/mm<sup>2</sup>.

As annealed max. 850 N/mm<sup>2</sup>.

### FOR FLAT ROLLED WIRE

Width (mm)	Tolerance (mm)
2.00 - 5.00	±0.050
5.01 - 8.00	±0.070
8.01 - 10.00	±0.100

Thickness (mm)	Tolerance (mm)
0.20 - 0.80	±0.015
0.81 - 1.00	±0.019
1.01 - 1.60	±0.025

### FOR SHAPED WIRE

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

## ELONGATION

Min. 40%.

## MICROSTRUCTURE

Austenite.

## EXECUTION

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

## CAMBER

Max. 5 mm measured on 1 m length.

## COIL SET

Max. 20 mm measured on 1 m length.

## SURFACE CONDITIONS

Bright. Surface defects max. 1% of thickness.

## PHYSICAL PROPERTIES

### E AND G MODULUS OF ELASTICITY

Abt. 180 kN/mm<sup>2</sup> in drawn condition.  
Abt. 185 kN/mm<sup>2</sup> after heat treatment.

### E AND G MODULUS OF SHEAR

Abt. 70 kN/mm<sup>2</sup> in drawn condition.  
Abt. 73 kN/mm<sup>2</sup> after heat treatment.  
Density: 7.90 kg/dm<sup>3</sup>.

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## STANDARDS

### NEAREST EQUIVALENT STEEL GRADES

EN/DIN 1.4301, AISI/SAE 304, JIS SUS 304

### NEAREST EQUIVALENT STANDARDS

EN 10270-3, ASTM A313, BS 2056 304 S15, JIS G4314