

# GARBAFLEX 174MN

Flat and shaped wire

GARBAFLEX 174Mn is an austenitic stainless wire, supplied in the cold rolled or annealed condition.

## CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	P max. (%)	S max. (%)	Cr (%)	Ni (%)
0.15	1.00	5.50 - 7.50	0.045	0.030	16.00 - 18.00	3.50 - 5.50

## MECHANICAL PROPERTIES

### Tensile strength

As cold rolled max. 1900 N/mm<sup>2</sup>.

As annealed max. 950 N/mm<sup>2</sup>.

### Yield strength

As annealed 300-450 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)
0.30 - 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 ( $\pm$ mm)
-1.50	0.020
1.51 - 3.00	0.030
3.01 - 5.00	0.040
5.01 - 7.00	0.050
7.00 -	0.060

## ELONGATION

As annealed min. 40%.

## MICROSTRUCTURE

Austenite.

## CAMBER

Max. 5 mm measured on 1 m length.

## SURFACE CONDITIONS

### SURFACE

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 1.4371, AISI/SAE 201, JIS SUS 201

### NEAREST EQUIVALENT STANDARDS

JIS G4309

## ADDITIONAL

### ADDITIONAL INFORMATION

**Delivery form**

On wooden spools. Max. 250 kg.