

# GARBAFLEX 174Mn

## Flat and shaped wire

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

## Chemical composition

Element	Weight %
C	0.15
Si	1.00%
Mn	5.50% - 7.50%
P max.	0.045%
S max.	0.030%
Cr	16.00% - 18.00%
Ni	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>.

### Flat wire tolerance

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

### Shaped wire tolerance

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
7.01	±0.060

### Yield point

As annealed 300-450 N/mm<sup>2</sup>.

## Surface conditions

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Bright. Surface defects max. 1% of thickness.

## Technical specification

Property	Value		
E modulus of elasticity	Abt. 180 kN/mm <sup>2</sup> in drawn condition.	Abt. 185 kN/mm <sup>2</sup> after heat treatment.	
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> .
Elongation	As annealed min. 40%.		
Microstructure	Austenite		
Camber	Max. 5 mm measured on 1 m length.		

## Steel grades and product standards

Nearest equivalent product standards	JIS G4309		
Nearest equivalent steel grades	EN/DIN 1.4371	AISI/SAE 201	JIS SUS 201

## Additional

### Additional information

#### Delivery form

On wooden spools, max. 250 kg.