# GARBAFLEX 188

Flat and shaped wire

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

## CHEMICAL COMPOSITION

| C (%) | Si (%) | Mn (%) | P max. (%) | S max. (%) | Cr (%) | Ni (%) |
|---|---|---|---|---|---|---|
| 0.08 | 2.00 | 2.00 | 0.045 | 0.015 | 16.00 - 19.00 | 6.00 - 9.50 |

## MECHANICAL PROPERTIES

**Tensile strength**
As cold rolled max. 1850 N/mm$^2$.
As annealed max. 850 N/mm$^2$.

### 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$^2$ in drawn condition.
Abt. 185 kN/mm$^2$ after heat treatment.

### E AND G MODULUS OF SHEAR

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

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## STANDARDS

### NEAREST EQUIVALENT STEEL GRADES

EN/DIN 1.4310, AISI/SAE 302, JIS SUS 302

### NEAREST EQUIVALENT STANDARDS

EN 10270-3, ASTM A313, AMS 5688, BS 2056 302 S25, JIS G4314