

GARBAFLEX 188

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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/mm².

As annealed max. 850 N/mm².

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 (\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

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/mm² in drawn condition.
Abt. 185 kN/mm² after heat treatment.

E AND G MODULUS OF SHEAR

Abt. 70 kN/mm² in drawn condition.
Abt. 73 kN/mm² after heat treatment.
Density: 7.90 kg/dm³.

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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