

GARBAFLEX 11R51

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Flat and shaped wire

GARBAFLEX 11R51 is an austenitic stainless steel wire alloyed with molybdenum, supplied in the cold rolled or annealed condition.

CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	P max. (%)	S max. (%)	Cr (%)	Ni (%)	Mo (%)
0.07 - 0.09	1.20 - 1.80	1.50 - 2.00	0.025	0.010	16.00 - 18.00	7.00 - 8.50	0.50 - 0.80

MECHANICAL PROPERTIES

Tensile strength

As cold rolled max. 2400 N/mm².

As annealed max. 850 N/mm².

FOR FLAT ROLLED WIRE

Width (mm)	Tolerance (mm)
1.00 - 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 (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

ELONGATION

As annealed min. 40%.

MICROSTRUCTURE

Austenite.

EXECUTION

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

CAMBER

Max. 3 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/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, ISO 6931-1, ASTM A313

ADDITIONAL

ADDITIONAL INFORMATION

Delivery form

On wooden spools, max. 250 kg.