GARBAFLEX CRSI70

Flat and shaped wire

GARBAFLEX CrSi70 is especially intended for application requiring high fatigue properties and good relaxation properties at moderately increased working temperatures.

CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	Cr (%)	P max. (%)	S max. (%)
0.50 - 0.60	1.20 - 1.60	0.50 - 0.80	0.50 - 0.80	0.020	0.020

MECHANICAL PROPERTIES

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	±0.013
0.81 - 1.00	±0.019
1.01 - 1.60	±0.025
1.61 - 2.30	±0.050

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

MICROSTRUCTURE

Tempered martensite with no ferrite.

EXECUTION

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

CAMBER

Max. 4 mm measured on 1 m length.

COIL SET

Max. 20 mm measured on 1 m length.

SURFACE CONDITIONS

SURFACE

Bright or oxide.
Surface defects max. 1% of thickness.

PHYSICAL PROPERTIES

Density: 7.95 kg/dm^3.

E AND G MODULUS OF ELASTICITY

206 kN/mm^2

E AND G MODULUS OF SHEAR

79.5 kN/mm^2

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STANDARDS

NEAREST EQUIVALENT STEEL GRADES

EN/DIN 2090, AISI/SAE 2090, JIS 54SiCr6

NEAREST EQUIVALENT STANDARDS

EN 10270-2, ASTM A401

ADDITIONAL

ADDITIONAL INFORMATION

Decarburization
No total decarburisation. Partial decarburisation (no continuous zones) max. 1.2% of a corresponding round wire dimension.