

# 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

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

## Mechanical properties

### For flat wire

Width (mm)	Tolerance (mm)
1.00 - 5.00	±0.050
5.01 - 8.00	±0.070
8.01 - 10.00	±0.100
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

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

## Surface conditions

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Bright or oxide.

Surface defects max. 1% of thickness.

## Technical specification

Property	Value	
E modulus of elasticity	206 kN/mm <sup>2</sup>	
G modulus of shear	79.5 kN/mm <sup>2</sup>	
Density	7.95 kg/dm <sup>3</sup>	
Camber	Max. 4 mm measured on 1 m length.	
Microstructure	Tempered martensite with no ferrite.	
Execution (flat)	Rolled on 2 sides	
Execution (shaped)	Rolled on 4 sides	Profile drawn
Coil set	Max. 20 mm measured on 1 m length.	

## Steel grades and product standards

Nearest equivalent product standards	EN 10270-2	ASTM A401	
Nearest equivalent steel grades	EN/DIN 2090	AISI/SAE 2090	JIS 54SiCr6

## Additional

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#### **Decarburization**

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