

# GARBAFLEX 85

1/2

## Flat wire

This propriety steel grade has high carbon content. It is especially intended for applications where high tensile strength is demanded.

## CHEMICAL COMPOSITION

C (%)	Si (%)	Mn (%)	P max. (%)	S max. (%)
0.80 - 0.95	0.10 - 0.30	0.30 - 0.60	0.025	0.020

## MECHANICAL PROPERTIES

### FOR FLAT ROLLED WIRE

Width (mm)	Tolerance ( $\pm$ mm)
- 4.00	0.040
4.01 - 6.00	0.070

Thickness (mm)	Tolerance ( $\pm$ mm)	Tensile Strength (N/mm <sup>2</sup> )
1.00 -	0.020	1965 -
1.01 - 1.50	0.030	1900 -

### YIELD POINT

Yield strength: 80-90% of the tensile strength.

### ELONGATION

Min%: 4

### CAMBER

Max. 4 mm measured on 1 m length.

## SURFACE CONDITIONS

### SURFACE

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

# GARBAFLEX 85

2/2

## PHYSICAL PROPERTIES

Density: 7.95 kg/dm<sup>3</sup>.

## E AND G MODULUS OF ELASTICITY

206 kN/mm<sup>2</sup>

## E AND G MODULUS OF SHEAR

79.5 kN/mm<sup>2</sup>

## STANDARDS

### NEAREST EQUIVALENT STEEL GRADES

JIS 1.1269

### NEAREST EQUIVALENT STANDARDS

EN 10270-1, AMS SA 905

## ADDITIONAL

### ADDITIONAL INFORMATION

Edges

Natural edges (edge treatment on request).

Decarburization

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

Diagram.: Thickness vs. Width