

# MATERIAL SPECIFICATION SHEET

## GRADE: SG2



### Material nº:

No: -

### Equivalencia norma - Standard Reference:

DIN EN 10277

### Other references:

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### Tipo de acero - Steel type:

Wire rod for welding

### Aplicación - Application:

Wire rod for a process of welding. Thanks to tight control of the chemical composition, specially the residual hardening elements, and above all the retarded cooling system with covers, a structure and hardness are achieved that allow direct wire drawing at 0,6mm in diameter, without the intermediate annealing by normal wire drawing processes, including with mechanical descaling.

### Composición química (%) - Chemical composition (%):

Element	Min	Max
%C	0,06	0,13
%Mn	1,30	1,60
%Si	0,70	1,00
%P		0,025
%S		0,025
%CU		0,30

## Característica mecánicas bruto - Mechanical characteristics (As rolled)

**Resistencia** - Tensile strength (Mpa) 530 max

**Estricción** – Reduction of area (%) 78 min

## Tolerancias dimensionales - Dimensional tolerances

According to **EN 10108 Class B**

## Calidad superficial - Surface quality

According to **ISO 9443:2018 class B**

Material verified by **Eddy Current Control**

## Dimensiones y peso del rollo – Coil dimensions and coil weight



**3100 kg or 2600 kg aprox.** and half coils packed together of 1650 kg or 1300 kg aprox.  
Each coil tied minimum with four strips

### Stelmor line (rod sizes from 5.5 up to 24.0 mm)

Coil weight (kg) aprox.	Coil length (mm) aprox.	Inner diameter (mm) aprox.	Outer diameter (mm) aprox.
2650	1800	900	1250
3150	2000	900	1250

Note: when cutting the coil ties, the length can be increased significantly.

### Stelmor line: Half coils

Coil weight (kg) aprox.	Coil length (mm) aprox.	Inner diameter (mm) aprox.	Outer diameter (mm) aprox.
1325	900	900	1250
1575	1000	900	1250

Note: half coils are delivered in bundles of two coils packed together.

**Hot coiling line (rod sizes from 25.0 up to 52.0 mm)**

Coil weight (kg) aprox.	Coil length (mm) aprox.	Inner diameter (mm) aprox.	Outer diameter (mm) aprox.
2650	1700	950	1300
3150	1800	950	1300

Note: when cutting the coil ties, the length should not have a significant increase.  
Other coil weights could be made, if customer needs.