

# MATERIAL SPECIFICATION SHEET

## GRADE: 11SMNPB30


**Material nº:**

No: 1.0718

*Equivalencia norma -*  
**Standard Reference:**

DIN EN 10277

**Other references:**

ISO 683-4

*Tipo de acero -*  
**Steel type:**

Free Cutting Steels

**Aplicación - Application:**

**Wire rod for cold drawing and final machined pieces.** These steels provide better machinability, allowing shorter machining times. From resulphurized to leaded, the performance suits the customer's applications and needs.

Our range of free-cutting grades is **the perfect result** of our long experience in steelmaking and the application of the **most modern design and production techniques for high quality products.**

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

| Element | Min  | Max  |
|---------|------|------|
| %C      |      | 0,14 |
| %Mn     | 0,90 | 1,30 |
| %Si     |      | 0.05 |
| %P      |      | 0.11 |
| %S      | 0,27 | 0.33 |

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

**Resistencia** - Tensile strength (Mpa) 570 max

**Dureza** – Hardness (HB) 169 HB max

## Tolerancias dimensionales - Dimensional tolerances

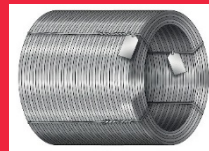
According to **EN 10108 Class B**

## 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<br>(kg) aprox. | Coil length<br>(mm) aprox. | Inner diameter<br>(mm) aprox. | Outer diameter<br>(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<br>(kg) aprox. | Coil length<br>(mm) aprox. | Inner diameter<br>(mm) aprox. | Outer diameter<br>(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<br>(kg) aprox. | Coil length<br>(mm) aprox. | Inner diameter<br>(mm) aprox. | Outer diameter<br>(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.