

# MATERIAL SPECIFICATION SHEET

## GRADE: 11SMNPB37


**Material nº:**

No: **1.0737**

**Other references:**

ISO 683-4

**Equivalencia norma -  
Standard Reference:**

DIN EN 10277

**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 resulfurized 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     | 1,00 | 1,50 |
| %Si     |      | 0,05 |
| %P      |      | 0,11 |
| %S      | 0,34 | 0,40 |
| %Pb     | 0,20 | 0,35 |

## **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.