



MATERIAL SPECIFICATION SHEET

GRADE: 23B2

**Material n°:**

No: **1.5508**

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

DIN EN 10263-4

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

Cold Heading grade

Aplicación - Application:

Wire rod for a process of cold heading / cold extrusion, with a high productivity using punch and dies to transform a steel wire rod at room temperature.

Boron Steels are killed with Aluminium and Titanium, which allow enough Boron to be active in order to guarantee the quenching hardenability of the steel.

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

Element	Min	Max
%C	0,20	0,25
%Mn	0,60	0,90
%Si		0,30
%P		0,025
%S		0,025
%Cr		0,30
%Ni		0,15
%Cu		0,25
%B	0,0008	0,0050
%Al	0,020	0,060
%N		0,0100

Característica mecánicas bruto - Mechanical characteristics (As rolled)

Resistencia - Tensile strength (Mpa) 540 max

Estricción - Reduction of Area (%) 60 min

Característica mecánicas recocido globular - Mechanical characteristics (As annealed)

Resistencia - Tensile strength (Mpa) 500 max

Estricción - Reduction of Area (%) 65 min

Tolerancias dimensionales - Dimensional tolerances

According to **EN 10108 Class B**

Calidad superficial - Surface quality

Suitable for cold heading. Upsetting test 1/3 with no cracks

According to **ISO 9443:2018 Class C**

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.