

Distribution Solutions
WireSolutions



ArcelorMittal

ArcelorMittal Marnaval
Cold heading wire



From the world leader in steel and wire solutions

WireSolutions, a subsidiary of ArcelorMittal, is one of the world's largest wire drawers. Its cold heading wires are produced by ArcelorMittal Marnaval, located in Eastern France. The mill is a specialist in producing cold heading wire. The activity is mainly oriented towards the European automotive and mechanical industries.

Thanks to its large experience in terms of R&D and technical knowhow ArcelorMittal Marnaval is your preferred partner for sustainable industrial solutions. The mill is proud to fulfill the most demanding requirements with regards to Health, Safety, Environment and Quality.

Cold heading wire

Specifications

Grades used (according to EN 16120)

- ▶ Hot rolled wire rod
- ▶ Carbon steel
- ▶ Alloy steel (Cr, Ni, Mo, B...)
- ▶ Carbon content from 0.06 % to 0.60 %
- ▶ Examples of grades currently used: C10C, XC 10/18/38, 20MB5, 38C4, 37CrB1

Product range

- ▶ Ø from 4.35 to 30.00 mm all grades and process specifications included
- ▶ Ø between 4.35 and 7.00 mm and between 27.00 and 30.00 mm depending on the grade (on request)

Process

▶ Bright	K	+U+C
▶ Interannealed	KGK	+U+C+AC+LC
▶ Drawn annealed rod	GK	+U+AC+C
▶ Finally annealed	KG (non phosphated)	+U+C+AC

- ▶ Other process on request such as **chemical pickling and surface treatments of wire rod**

The annealing carried out in the Marnaval factory are all 75 % to 100 % spheroidized depending on the grade

Surface

- ▶ Phosphated or soap drawn according to specification

Norms

- ▶ All our wires are produced according to EN 10263-1 to 4 or customer specification

Normal values

- ▶ Diameter tolerance h9
- ▶ Tensile tolerances:
± 100 Mpa in bright
± 50 Mpa for other process routes

Applications

- ▶ Automotive
- ▶ Mechanical construction
- ▶ Cold heading wire for bolt grades 8-8, 10-9, 12-9



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Packaging

Description

- ▶ All our products are individually identified with labels referring to type, diameter, cast number, batch number, coil number and coil weight
- ▶ Our coils can be protected by plastic wrapping, loaded on pallets or oiled
- ▶ Specific packaging can be offered, please contact us

Certificate

- ▶ We supply a test certificate which complies with EN 10204-3.1

Standard packaging

- ▶ Possible to strap 3 or 4 coils together

	Ø 4.35-12.00 mm	Ø 8.00-14.50 mm	Ø 12.00-30.00 mm
	<i>Traverse wound coil*</i>	<i>Coil</i>	<i>Coil</i>
Weight (kg)	900-1300	600-1250	600-2000
Internal Ø (mm)	550	650	800
External Ø (mm)	800-900	1250	1300
Height (mm)	620	-	-

* = cybopic



Ultra modern chemical descaling line

- ▶ Completely automatic and functional, this line is capable of preparing wire rod prior to drawing high and low carbon wires as well as cold heading wires
- ▶ Please contact us for more information

ArcelorMittal Marnaval
Everyday, everywhere...
The best cold heading product for your applications

Contact us for further information:

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Company certified ISO 9001, ISO 14001 and OHSAS 18001

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in WireSolutions with PhosC3

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