

# Cold Heading Wire

for the European  
Automotive Industry

## PhosC<sup>3</sup>

Continuous | Consistent | Complete | Phosphating

WireSolutions

  
ArcelorMittal

## High performance Cold Heading wire for automotive applications

The cold heading process for the manufacture of fixings and fasteners demands drawing wire that combines formability and ductility with enduring strength.

Our drawing wire for cold heading applications offers exceptional levels of quality, consistency and reliability to customers who serve the automotive industries.

Used for the efficient manufacture of a wide variety of high quality fasteners and fixings, in simple and complex forms, our extensive range of cold heading drawing wire delivers enhanced:

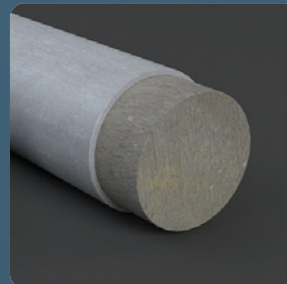
- Formability
- Ductility
- Strength

## Inline phosphating for reliable processing

Produced at our specialist, state of the art plant in Marnaval, eastern France, PhosC<sup>3</sup> uses inline phosphating. PhosC<sup>3</sup> delivers a superior quality Cold Heading drawn wire making the manufacturing process more efficient and adding value to the end product.

### **Why is ArcelorMittal Marnaval your ideal Cold Heading wire partner?**

- Long standing experience and technical expertise
- Continuous investment in research and development
- We partner with customers to develop Cold Heading wire products that meet exacting standards.
- Our customers and their business success are everything to us.



### **In-line phosphating**

PhosC<sup>3</sup> ensures continuous, complete, and consistent phosphating



# PhosC<sup>3</sup>

## Cold Heading Quality with in-line phosphating

The manufacture of precision fixings and fasteners for the automotive industry requires a Cold Heading wire that meets exacting standards.

Our customers and their business success are everything to us.



### Specifications

#### Grades used (according to EN 16120)

- > Hot rolled drawing wire
- > Carbon steel
- > Alloy steel (Cr, Ni, Mo, B...)
- > Carbon content from 0.06 % to 0.60 %
- > Examples of grades currently used: C4C to C10C, XC10 to XC38, 20MB5, 37CrB1, 17B2 to 38B2

#### Diameters from 7mm to 27mm for all grades. Other diameters on demand

- > Ø between 4,35 and 7,00 mm as well as between 27,00 and 32,00 on demand

#### Process

- |                             |     |            |
|-----------------------------|-----|------------|
| > Bright                    | K   | +U+C       |
| > Interannealed             | KGK | +U+C+AC+LC |
| > Drawn annealed rod        | GK  | +U+AC+C    |
| > Other processes on demand |     |            |

#### Surface

- > Phosphated and/or soap drawn according to specification

### Unique Process

#### The process



### 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 coiled
- > Specific packaging can be offered

#### Standard packaging

- > Possible to strap 3 or 4 coils together



	Ø 4.35-12.00 mm	Ø 8.00-14.50 mm	Ø 5mm to 12mm Ø 12mm to 32mm
	Traverse wound coil*	Coil	Coil
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

## Contact us

Learn how PhosC<sup>3</sup> can add value to your production



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