

Distribution Solutions  
WireSolutions



ArcelorMittal

# ArcelorMittal Manois Corzal<sup>®</sup> wire for technical springs



# High corrosion resistant solution for technical springs

## Did you know?

WireSolutions is a business unit within ArcelorMittal and one of the leading companies within the wire drawing business. WireSolutions has a very diversified portfolio of low and high carbon wires, cables, stranded wires, fibres for thereinforcement of concrete, fencing, nails and high anti-corrosion solutions. The main markets are automotive, construction, energy and the agricultural sector.

ArcelorMittal Manois, located eastern France, is part of WireSolutions. The plant is well known in the market for the outstanding quality of its spring wires since more than 150 years.

Our extensive range of spring wires is produced in various steel grades and coatings providing an optimum solution to the customer needs. The continued improvement in performance of our products, quality, flexibility and service are our main goals.

Our spring wires are produced according to the European Norm 10270-1.

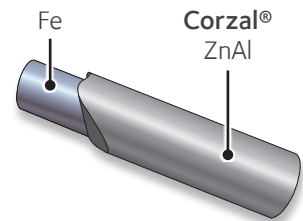
ArcelorMittal Manois is ISO 9001 and OHSAS 18001 certified.

## Corzal®

Research programmes conducted by ILZRO (International Lead and Zinc Research Organisation) have led to the development of Corzal®, a 95% Zn-5% Al alloy.

### Outstanding properties

- ▶ Extended life span.
- ▶ Smooth surface.
- ▶ Significant economical advantages.
- ▶ Exceptional concentricity of the coating.



### Specifications

#### Corzal® wires are lead patented:

- ▶ 0.85 mm to 4.00 mm DM.
- ▶ 0.70 mm to 2.70 mm DH.

Diameter (mm)	Min. coating weight* (g/m <sup>2</sup> )
0.70 ≤ Ø < 0.80	45
0.80 ≤ Ø < 0.90	50
0.90 ≤ Ø < 1.00	55
1.00 ≤ Ø < 1.20	60
1.20 ≤ Ø < 1.40	65
1.40 ≤ Ø < 1.65	70
1.65 ≤ Ø < 1.85	75
1.85 ≤ Ø < 2.15	80
2.15 ≤ Ø < 2.50	85
2.50 ≤ Ø < 2.80	95
2.80 ≤ Ø < 3.20	100
3.20 ≤ Ø < 3.80	105
3.80 ≤ Ø ≤ 4.00	110

\* the minimum weight of coating that we guarantee are those of the norm EN 10270-1.





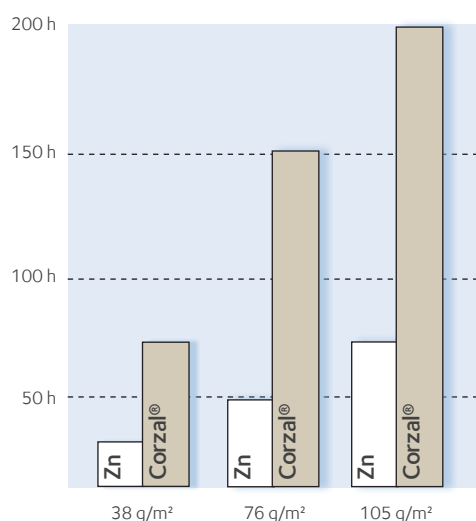
# ArcelorMittal

## Excellent corrosion resistance

Thanks to a new chemical and metallurgical technology and an adapted manufacturing process, Corzal® has exceptional durability characteristics.

### Salt spray performance (according to the European norm ISO 9227)

► Comparison between Zinc coated wire and Corzal® coated wire.



**Example:**  
For a coating of 105 g/m<sup>2</sup>, the duration of corrosion resistance is 72 hours for Zinc and more than 200 hours for Corzal®!

### Contact us

For more information or support on any of our products please visit our website [www.arcelormittal.com/industrialwire](http://www.arcelormittal.com/industrialwire) or contact us at +33 3 29 91 78 27.

## Packaging

### Metallic spool

Internal Ø (mm)	External Ø (mm)	Width (mm)	Max. weight (kg)
406	760	310	450

### General

Our products can be protected by plastic wrapping, loaded on pallets or wooden blocks and oiled. Packaged in metal containers, these are stackable upon request. All our products are individually identified with labels referring to quality, diameter, batch number and coil weight.



---

# Sustainability Quality Leadership

---

**Contact us for further information:**

ArcelorMittal Manois  
Route d'Humberville  
F-52700 Manois  
T +33 3 25 02 08 25  
F +33 3 25 02 81 06

[www.arcelormittal.com/wiresolutions](http://www.arcelormittal.com/wiresolutions)



Associated member of SNFR



Associated member of VDFI

