

Corus Wire Rod

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**Alloy steel products**

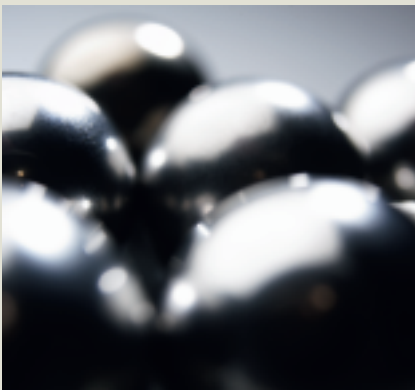
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**Endless possibilities**



# Premium-quality wire rod.

## Meeting the demands of automotive component manufacturers.



### Product in brief

Corus Wire Rod has the knowledge and expertise to produce alloy wire rod for high-quality bearing applications.

Corus alloy steels are manufactured to reliably withstand the high fluctuating loads in modern automotive systems. Our steels are produced to closely controlled and very demanding cleanness levels to offer excellent resistance in the end product.

Our unrivalled expertise in both technical and market development ensures we stay ahead of the latest innovations in steelmaking and wire rod manufacture. Working closely with our customers, we jointly seek technical solutions for specific applications. Advanced research, design and technical resources ensure that Corus continually extends the boundaries of steel innovation, keeping customers ahead of the competition.

### Quality assurance

Corus Wire Rod is committed to producing alloy steel rod of the highest quality.

Strict process controls and the rigorous application of our quality-assurance standards provide the peace of mind that all products will fulfil your specifications.

Corus Wire Rod holds ISO9001:2000 for our quality management system and ISO14001 for our environmental management system.



### Example grades

Corus grade	Equivalent grade	Typical 5.5mm tensile (MPa)	Typical applications
C1%Cr6	EN ISO683-17:1999 (100 Cr6)		
	ASTM A295/98	1350	Bearings
M40Cr5	EN10016-2 1995 C38D	1015	Q&T cold forging

### Monitoring and control

**Corus Wire Rod manufactures steel under strictly controlled conditions to ensure only the highest quality wire rod is supplied to customers.**

- **Composition** – Raw materials are carefully chosen to ensure close control over residual elements can be maintained during steelmaking – producing steel of a consistent quality for customers.
- **Cleanness** – High levels of cleanness are maintained by careful steelmaking practices and by using efficient shrouding systems during continuous casting.
- **Segregation** – Our advanced casting technology ensures that segregation is maintained at exceptionally low levels to reduce the risk of fractures during wire drawing and subsequent operations.
- **Surface quality** – Wire rod is rolled from high-quality concast feedstock. Surface integrity is maintained through to the finished wire rod by rolling under controlled conditions, ensuring that the quality of the rod meets the requirements of the end application. Corus supplies rod to specified surface quality standards as detailed in BS EN 10221.
- **Decarburisation** – This is minimised by reheating in our state-of-the-art furnace, which directly feeds the rod mill. Our wire rod is supplied to decarburisation limits of 1.5% average maximum partial decarburisation, in line with EN 10263 – with tighter limits available on request.

- **Dimensional control** – To provide wire-drawing customers with a consistent feedstock, continuous Zumbach Gauge monitoring enables close control of rod tolerance and ovality.

### Testing and delivery

- A comprehensive testing procedure assures the quality of Corus products before they are despatched to customers. Testing in our fully equipped laboratories examines segregation, steel cleanness, scale, surface quality, decarburisation, chemical composition, size, shape and tensile strength properties.
- Despatch through our purpose-built rod service centre or automated coil warehouse allows Corus Wire Rod to offer an efficient delivery service from these streamlined despatch facilities. They are equipped with bespoke handling equipment which, combined with minimal handling and an anti-abrasive flooring system, eliminates storage and handling damage.

### Product range

Rod diameter	5.5-15.0mm in 0.5mm increments
Coil weight	Nominal 2100kg
Coil dimensions	Outside diameter 1250mm Inside diameter 850mm

### Technical support

A team of experienced metallurgists provides Corus Wire Rod customers with technical support, helping you to select the most appropriate steels and ensuring you receive the best possible advice.

### Contact us

For more information or support on any of our products, please visit our website:

**[www.coruswirerod.com](http://www.coruswirerod.com)**

or contact us at:

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**www.coruswirerod.com**

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