

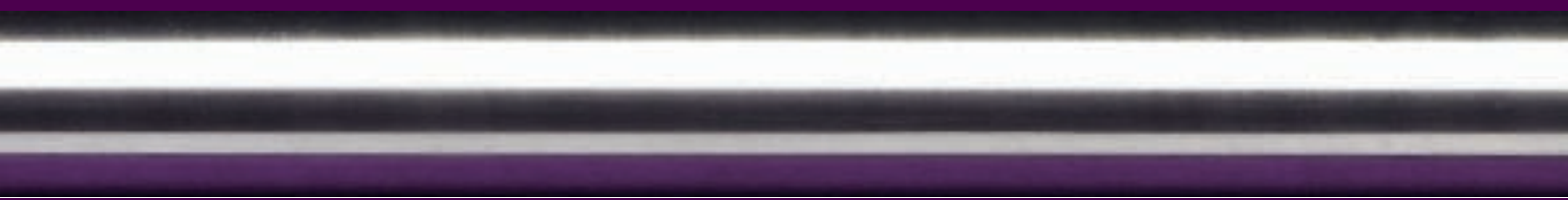
Corus Wire Rod

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**Freecutting steel products**

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**Endless possibilities**



# Freecutting wire rod for efficient, accurate, high-speed machining operations.



## Product in brief

Corus Wire Rod produces high-quality free-cutting wire rod for the most challenging machining processes.

Corus Wire Rod is at the forefront of free-cutting steel technology. We are a major supplier of wire rod specially developed for the efficient, accurate and high-speed machining of large-volume engineering components. Our policy of continuous improvement ensures that the quality of our free-cutting steels is always being developed to meet new and ever more demanding applications.



## High-performance material

Our free-cutting steels are used to manufacture a huge range of precision components in the automotive and office equipment industries.

Corus Wire Rod supplies leaded free-cutting steels in a wide range of compositions, to meet national and international specifications, as well as customers' individual requirements.

**Free-cutting steels** – These grades of steel are designed to withstand the high-speed manufacturing processes used for precision components.

**Semi-free-cutting steels** – Our range of semi-free-cutting steels offers high-performance where a combination of machinability and strength is required.

Corus free-cutting and semi-freecutting steels are supplied in accordance with EN 10087:1999 (ASTM A29).

## Typical grades

EN 10087:1999 designation	Internal quality code	Typical 5.5mm rod tensile strength (MPa)
11SMnPb30	PB28G3	405
36SMnPb14	PB37M3	700
44SMnPb28	PB45G3	770
11SMn30	FC28G3	466
38SMn28	FC45G3	818

### Quality assurance

**Corus Wire Rod is committed to producing free-cutting 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.

### Monitoring and control

**Corus Wire Rod manufactures steel under strictly controlled conditions to ensure only the highest quality material 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.
- **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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