Bright wire







The stainless steel wire experts

Steelmaking, rolling, heat treatment, drawing - the production of bright wire involves many individual steps, all of which need to be precisely coordinated. That's why Deutsche Edelstahlwerke offers the complete production chain, allowing us to continuously monitor all processes and guarantee our customers premium quality at all times while giving them maximum flexibility in choosing the right will be for their needs.

An important factor in this is close collaboration between research, development, production and application support. For example, in Deutsche Edelstahlwerke's development departments engineers and steel users work together in developing new materials and production processes. And to ensure that the knowledge they gain can be put into day-to-day practice, our engineers support you in questions of material selection and processing.

To meet individual customer needs, we offer bright wire in a wide variety of forms and sizes up to a thickness of 22 mm. We can supply bright wire made from conventionally melted or remelted material.

Wire rod is produced on our modern wire

rod mill and drawn into coils on several drawing lines. Bright wire from Deutsche Edelstahlwerke can be approved for general building work in accordance with Z-30.3-6. With over 160 years of experience in the production of stainless steel, we are capable of meeting wide-ranging industry requirements.

Whenever specifications call for optimum strength, close tolerances, shape stability and maximum corrosion resistance, high-quality stainless wires from Deutsche Edelstahlwerke are the perfect solution. That's why they are regularly used in the auto, equipment, furnace, materials handling, architecture, furniture, environmental, medical and aerospace sectors.

Forming wire

Stainless steel forming wire is put to an extremely wide variety of uses - from latches, spokes and drive chains in the automotive industry and disinfection baskets for surgical instruments in the medical sector to vine supports in the winegrowing industry and wall anchors in the construction sector. Produced with a light-drawn finish, our forming wire is suitable for electropolishing and is characterized by uniform strength and helix.

Cold heading and cold extrusion wire

Stainless cold heading and cold extrusion wires display excellent formability. These forming properties are further enhanced by a special Vicafi® coating applied by Deutsche Edelstahlwerke. The use of peeled wire rod also allows us to offer cold heading and cold extrusion wires which are free of surface defects. Our cold heading products are mainly used to make screws and bolts for the auto industry and for wind turbines. Cold heading and cold extrusion wires are also used wherever nuts, studs, pins and other fasteners are required.

Spring wire

Corrosion and acid-resistant spring wire is typically used in more aggressive environments. It finds b oad usage in the auto industry - in brake, lock and fuel injection systems - and the electrical industry, where the springs used frequently have to contend with changes in operating temperature. All spring wires from Deutsche Edelstahlwerke are drawn in accordance with EN 10270-3 for good sliding properties and are ideal for all applications requiring wire thicknesses of between 2 and 10 mm.

Special applications

Our special wire grades, which require a special production process, include heat-resistant grades, metal fiber wi e, redraw wire, wire for bicycle spokes and conveyor belts. These wires are produced in consistent finishes in line with customer specifications. The heat- esistant grades are mainly used for heating coils and the metal fiber wi es for catalytic converters or silencers. Redraw wire is mainly used for weaving into fabrics.









Bright wire drawn, coiled*

	Austenitic	Ferritic
Dimensions / tolerances	0.80 to 22.00 mm Diameter tolerance: ffl it (tolerance it 8 by agreement) Roundness: 1/2 diameter tolerance	1.80 to 22.00 mm Diameter tolerance: ffl it (tolerance it 8 by agreement) Roundness: 1/2 diameter tolerance
Finish	Light-drawn, suitable for electropolishing Vicafi® coated Grease drawn and oil drawn	Vicafi ® coated Grease drawn and oil drawn

 $^{^{\}star}$ Special profiles (squa e, hexagonal and octagonal) and thicker dimensions on request

Bright wire peeled, coiled

Size	Roughness depth	Delivery form
Round 7.00 to 22.00 mm Diameter tolerance: it 10	R _Z max. 25 µm	ID 800 to 900 mm OD max. 1350 mm Coil weight 300 to 1000 kg

DELIVERY FORM COIL/REEL/CARRIER 07

Delivery form: Coil

Size	Dimensions
1.80 – 6.00 mm	ID 400 to 500 mm OD max. 750 mm Coil weight 80 to 350 kg
5.00 – 12.00 mm	ID 600 to 700 mm OD max. 900 mm Coil weight 200 to 600 kg
8.00 – 22.00 mm	ID 700 to 800 mm OD max. 1250 mm Coil weight 500 to 1100 kg

Delivery form: Reel

Size	Dimensions
0.80 – 2.00 mm	Steel mandrel reel S 760 Other reel designs on request
0.80 – 5.00 mm	ID 380 mm / 500 mm OD max. 850 mm Reel height 500 mm Reel weight 500 to 1000 kg / 300 to 600 kg, with and without cardboard core
5.00 – 12.00 mm	ID 500 mm OD max. 1000 mm Reel height 630 mm Reel weight 500 to 1000 kg, with and without cardboard core

Delivery form: Carrier

Size	Dimensions
2.00 – 6.00 mm	ID 400 to 500 mm OD max. 800 mm Height 1200 mm / weight max. 600 kg Height 1700 mm / weight max. 1000 kg
5.00 – 12.00 mm	ID 500 to 600 mm OD max. 800 mm Height 1700 mm / weight max. 600 kg

Finishes and delivery forms depend on material, dimensions and strength specifications, which may restrict combinations.

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Product-specific data sheets have p ecedence over the information in this catalogue.

The desired characteristics are only binding if they are specificall agreed in the contract.