

WE DELIVER QUALITY,
SERVICE AND RELIABILITY

IN STAINLESS WIRE ROD AND WIRE PRODUCTS

FAGERSTA
Stainless



Fagersta Stainless customers use our stainless wire rod and wire in a wide range of applications, with the requirements varying depending on their final products and manufacturing processes. As their supplier, we are proud of one factor they all share: our customers are leaders in their fields.

Our customers are often best in their class.

We are proud of our contribution to their success.

Cutting-edge companies need capable partners. They need suppliers that understand their manufacturing processes, and can develop and deliver products that ensure high productivity in their production. Fagersta Stainless is an engaged supplier of custom-designed stainless wire rod and wire distinguished by quality, service and reliability. We work closely with our customers, furnishing them with products that help them to remain industry leaders. We are proud of contributing to their success.

Quality that creates value for our customers

At Fagersta Stainless, quality goes beyond the properties of our products. Quality is the value our customers gain as we provide them with personal service and technical support, along with reliable deliveries. Our metallurgic expertise and collaboration with world leaders in stainless steel manufacturing mean we can give our customers quick access to any stainless steel. We are well-acquainted with our customers manufacturing processes and help them to continually improve their production by custom designing of our stainless wire rod and wire. Controlling the entire production chain from melt to finished product allow us to deliver the right product all the time. This is critical to our customers productivity. Through close collaboration with

our customers, we enhance their ability to better serve their markets. Creating value for the customer is what we call quality.

Personalized service always

We are always available, quick to respond and make decisions efficiently. We form a close and trusting relationship with each customer – a long-term cooperation characterized by easy access to highly competent professionals, products and services. Our experienced and dedicated employees ensure conforming products delivered on time all the time, worldwide.

Reliability, from placing the order to delivering it

Our customers can trust us. They know that we will deliver the right product on time all the time. With short cycle times for product development, custom-designed products, lean manufacturing and our large production capacities, we give every customer the best value: a stainless wire rod and wire adapted to the customers process, minimizing machine down time and losses of material. Most important to our customers is the assurance of receiving the right product, delivery after delivery. The increased productivity and profitability they gain are essential for remaining best in the class.



WELDING

Balanced chemical compositions are vital to successfully manufacture welding consumables.



FASTENERS

Our customers value our knowledge about their products and manufacturing processes, combined with our reliable deliveries.



SPRINGS

Demanding applications such as valve springs for the vehicle industry exemplify the importance of knowing the entire manufacturing process, from melt to finished product.



SPOKES

Spoke wire for bicycles, motorcycles and cars are a Fagersta Stainless specialty and demonstrate our ability to manufacture wire suited to specific fields of application.

Our customers value our wide variety of products.

Even though, they want the same kind of wire rod - time after time.

Fagersta Stainless is a leading manufacturer of wire rod for demanding applications. Our wire rod is delivered worldwide and to our customers requirements and adapted to their manufacturing processes. With many years of experience and detailed knowledge of each manufacturing step, our products have well balanced chemistries that will provide unique product characteristics. We pride ourselves in our wide range grades and finishes we can offer our customers and in the consistency of our wire rod from delivery to delivery. Our customers value consistency.

Comprehensive material knowledge expedites development of new stainless steels

Knowledge of manufacturing, melting and working metals and alloys is strength of Fagersta Stainless. The foundation of our ability to develop new products is our wide ranging experience and knowledge of our industry and our close ties to some of the world's leading manufacturers of stainless steel.

Cost-effective and quality controlled production

For raw materials, we work with the best suppliers who offer the right qualities, delivery assurance

and price. We produce our wire rod cost-effectively in a state-of-the art hot rolling mill and wire drawing mill giving us control over the entire manufacturing process and enabling quality control throughout.

Custom-designed inner & outer properties of our wire rod

We offer a wide assortment of products to meet all customer needs. We produce wire rod in the range 5.6 – 13.5 mm. We make superior wire rod for wire drawing and cold heading processes. For every customers need, we optimize properties such as surfaces, grain size and strength.

Reliable deliveries and product performance that exceed your expectations

Fagersta Stainless is recognized for our timely deliveries and the attention to details throughout our manufacturing process. Our wire rod can be delivered in various material conditions and surface finishes. Essential characteristics of our wire rod are listed in the material certificates.

PRODUCT INFORMATION STAINLESS STEEL WIRE ROD

Applications:

Welding, Mechanical Springs, Cold heading, Reinforcement Hightemperature applications, etc.

Steel types:

Ferritic, Austenitic, Duplex, Precipitation-hardening, High-temperature resistant, Re-melted steel.

Diameter Range:

5.6 – 13.5 mm in increments of 0.5 mm.

Diameter Tolerances:

5.6 – 10.0 mm +/- 0.15 mm
>10.0 mm +/- 0.20 mm

Out of Roundness:

Max. 60% of the total diameter tolerance range

Material Conditions and Surface Finishes:

Annealed, DST-annealed or D-cooled condition. Various surfaces can be achieved by acid pickling

Delivery form:

Compacted and strapped coils with a weight of about 1,000 kg. Outside diameter of coils about 1250 mm and inside diameter about 950 mm.

More product information available at www.fagersta-stainless.se



CUSTOMERS NEEDS DRIVE DEVELOPMENT OF NEW WIRE ROD

Spring wire is an application area where customers benefit from Fagersta Stainless' experience in metallurgy, rolling and drawing technology for development of wire rod that can produce a spring wire with a smooth surface and with proper balance between strength and ductility.



NEW STAINLESS STEEL TYPES GENERATE DEMAND FOR NEW WELDING CONSUMABLES

New types of stainless steel entering the market necessitate new types of wire rod for new welding consumables, an application area dominated by Fagersta Stainless.



QUALITY CONTROL THROUGHOUT THE ENTIRE PROCESS

A trained workforce and a state-of-the art rolling mill assure that Fagersta Stainless wire rod meets all requirements of our customers.



TESTING FOR SAFETY'S SAKE

All shipments are quality tested prior to leaving our plant. Product features such as diameter, mechanical properties and surface finish are tested according to our internal quality standards or to specific customer requirements.



The Duplex family of grades was developed out of our extensive material knowledge and in collaboration with leading research and development centers. The Duplex grades offer more price-stability and its unique combination of strength, ductility and corrosion resistance make them ideal for applications within construction, transport and electronics industries.



**PRODUCT INFORMATION
STAINLESS STEEL DRAWN
WIRE**

Applications:

Fasteners, Spokes, Welding, Household products, High-temperature applications, etc.

Steel types:

Austenitic, Ferritic, Martensitic, Duplex, Precipitation-hardening, High temperature resistant, Re-melted steel

Diameter Range:

1.5 – 12 mm

Diameter Tolerances:

H9 according to EN 10278

Out of Roundness:

Max 50% of the total diameter tolerance range.

Material Conditions and Surface Finishes:

Annealed and drawn finishes. The wire is delivered either bright or matte drawn, with or without coating. Metallic or nonmetallic-coated wire

Delivery form:

Coils, spools or drums of wire with a weight of 150 -1000 kg or according to customer requirements

More product information available at www.fagersta-stainless.se

Drawn wire from Fagersta Stainless has gained worldwide recognition for its superior product performance and its consistency from delivery to delivery.

The outer appearance of our drawn wire is first class.

But inner beauty is our true strength.

Drawn wire from Fagersta Stainless is known for its performance and consistency. With our vast experience and flexible production processes, we can adapt the properties of every wire product for its application. By optimizing the wire's mechanical properties – sometimes to the limits of the laws of physics – we contribute to increasing our customers productivity. Our great challenge is to manufacture world-class drawn wire. Using steel of the highest quality to meet this call is the source of our strength and of our wire's inner beauty.

Drawn wire in cars, buildings and household products

We meet the needs of our customers worldwide by manufacturing drawn wire for diverse applications such as fasteners, spokes, and high temperature and household products. We offer drawn wire measuring 1.5 – 12 mm in a wide range of steel types, diameters and surfaces finishes. Our customers requirements regarding corrosion resistance, strength, ductility, deformation hardening, fatigue properties, weldability and surface coating determine the properties of each product.

Effective, flexible and reliable manufacturing processes

Our customers enjoy reliable deliveries and consistent product performance, because we control the entire processes from melting, rolling, drawing, after treatment to delivery. With all manufacturing processes under our control, we can assure effective and flexible production of drawn wire. For complete traceability, our wire is tested and marked along the entire chain – from start to finish.

Knowledge and service distinguish the process

In cooperation with our customers and leading research and development centers, we develop new products that keep pace with technical innovation. Our technical support team works closely with the customer in developing and adapting our product to their evolving needs, applications and manufacturing processes. The experience, commitment and service at Fagersta Stainless feature greatly in this task, resulting in world-class wire with inner beauty.



CUSTOM-DESIGNED DRAWN WIRE

Fagersta Stainless manufactures drawn wire in the dimensions 1.5 – 12 mm. Steel types, mechanical properties, diameters, tolerances and surfaces finishes are tailored according to our customers individual requirements.



IN FACTORIES, BUILDINGS, CARS AND AIRPLANES

We deliver drawn wire for applications such as welding, fasteners, spokes, high-temperature and household products. Our drawn wire is found in daily life – in homes, offices, hospitals, cars, trains and airplanes.



CUSTOMIZED WIRE FOR HEADING, BENDING OR THREADING

When manufacturing our drawn wire, we adapt steel type, strength and surfaces to the customers processing and the final product's application.



DELIVERY FORMS SUITED TO THE NEXT STAGE OF PRODUCTION

Our drawn wire is delivered in packages that will make our customers manufacturing processes more efficient.



Fagersta Stainless is in the forefront in many fields of application, a result of close cooperation with our customers and suppliers.

We achieve ground-breaking results.

In close cooperation with our customers.

Our sector of industry belongs to the future. Stainless steel is found in everything from small engine components to spectacular bridges, and development is accelerating. Stainless steel is durable and malleable, making it a desirable material for the design products of tomorrow. That will place new demands on the properties and surfaces of the wire. Incorporating forward-thinking functions in stainless steel wire – enabling it to register and report such information as temperature, pressure and speed, for example - is another exciting area of development at Fagersta Stainless. Working closely with our customers, we are ready to meet the challenges of today and tomorrow. Together, we and our customers will continue to be leaders in our sectors of industry.

Creating greater price stability for the customer with wire types such as Lean Duplex

The raw materials market fluctuates in cost. With the development of Lean Duplex – a wire with lower alloy content, but with the same high quality standards as its substitutes – Fagersta Stainless demonstrated its capacity to quickly develop a new product that offers customers more predictable and stable wire pricing.

New, specialized steel requires innovation in welding consumables

Hundreds of varieties of stainless steel continuously enter the market, with modifications in chemistries and with diverse properties for a wide range of applications. Fagersta Stainless keeps pace with development and produces new welding consumables to suit our customers ever changing need. For example, Fagersta Stainless has one of the market's broadest assortments of new products for the welding application.

Development of a wire increased service life threefold

Another success stemming from collaboration with our customers is found in wire for conveyor belts expected to tolerate heavy loads and extreme demands in harsh environments. Open dialogue between the user, the customer and Fagersta Stainless – to discuss issues such as processes and critical parameters for manufacturing and use – led to development of a new steel type with unique corrosion and mechanical properties. The result, a threefold increase in service life of the product, was ground-breaking and the reward of a trusting and close collaboration.



IN 1921 WE FURNISHED OUR FIRST CUSTOMER WITH STAINLESS STEEL

Fagersta Stainless is one of the world's oldest companies in our industry and over the years has proven that collaboration with customers can lead to the development of new wire products with innovative properties.



SPOKE WIRES FOR MOUNTAIN BIKES

The number of specialty bikes today is enormous, and their varying areas of use place different demands on spoke properties. In close cooperation with spoke manufacturers, Fagersta Stainless continually develops new products in pace with the development of new bikes.



DEMANDING CHALLENGES

Our customers products are often put to hard tests, such as within the aerospace and automotive industry, where material properties cannot be compromised. For demanding applications of this kind, we may suggest steel in re-melted condition to enhance creep strength or fatigue properties. We at Fagersta Stainless welcome challenges that require innovative solutions.



WE VALUE OUR CUSTOMER RELATIONSHIPS

Essential to maintaining our position as an industry leader is developing and nurturing customer relationships, generation after generation.



Fagersta Stainless today is an industry leader specializing in manufacturing stainless wire for demanding applications. Our wire products can be found within most sectors of industry and is an important part of our joint efforts to build a sustainable world. This drives our strategic investment in remaining at the forefront of technological development with new wire products that create value for our customers, today and tomorrow.

The core of our business is creating the greatest value for the customer.

This explains why we have been leaders in the stainless wire rod industry for over 100 years.

Fagersta Stainless has its roots deep in Sweden's Bergslagen region, which early on became a center for the world's iron and steel trade. In 1873, the mother company Fagersta Bruk was founded, and 11 years later commenced the manufacture of carbon steel wire rod. By 1921, Fagersta Stainless was one of the world's first manufacturers of stainless steel wire rod. Ever since, the knowledge has been passed down and cultivated over generations guided by the core values of custom-tailoring, steel skills, reliability and long-term thinking. This has made today's Fagersta Stainless a world leader in our industry.

Bergslagen - a European center for the development of the steel industry

Sweden and the Bergslagen region today enjoy strong positions as global centers for the steel industry. Industry-leading companies, communities and universities collaborate on diverse research projects to develop new steel types, wire grades and manufacturing processes. Fagersta Stainless plays an active role in this generative collaboration.

Production in tune with society and the environment

We take responsibility for society and the environment. In the region, we create job opportunities, support education and contribute to a healthy economy and infrastructure. Our ISO-certified manufacturing processes fulfill demanding quality and environmental requirements, and we actively work to minimize our energy consumption and environmental impact.

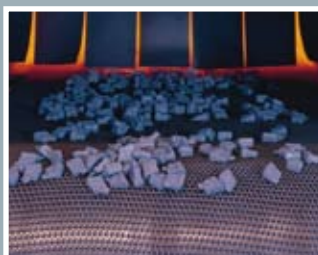
Our customers success is our best testimonials

Our customers success becomes our success. Of this reason, we make sure that our manufacturing capacities and capabilities meets the highest standards and that we engage in a dialogue with our customers regarding the development of new products and new manufacturing processes. In combining these elements, we provide our customers with the best value products, growing and preserving their reputation within their industry.



ATTRACTS GENERATION AFTER GENERATION OF PROFESSIONALS

Fagersta Stainless as a company attracts professionals for its many personal and professional growth opportunities. As our employees develop new products for customers throughout the world, they partake in a process emanating from a region steeped in strong tradition and offering many future possibilities.



EXCELLING IN HIGH TEMPERATURE APPLICATIONS

Developing wire products for high temperature applications such as conveyor belts for furnaces involves balancing creep strength, oxidation resistance and stability of the microstructure.



COLD HEADING WIRE LEADS TO REWARDING CUSTOMER RELATIONSHIPS

We work with the long term in mind and develop rewarding customer relationships that last. We have delivered cold heading wire to many of our customers for over 30 years, a sustainable win-win cooperation between Fagersta Stainless and fastener producers.



RAPID DEVELOPMENT OF NEW WIRE PRODUCTS

Fagersta Stainless works closely with leading companies within the steel industry to adeptly develop new wire products that keep ahead of market needs and technical development.

FAGERSTA STAINLESS FOR A SUSTAINABLE WORLD

Fagersta Stainless stands for sustainability, quality and renewal. Iron was hammered in Fagersta as early as the 1600's, and Fagersta Bruk was founded in 1873. Eleven years later, carbon steel rolled and drawn wire was introduced. In 1921, Fagersta was one of the first companies in the world to launch stainless steel wire. Today we are one of the world's leading manufacturers in our industry. We continually develop new products and methods to provide our customers with a wire for creating success and added value. Our stainless steel wire lays the foundation for a sustainable world, for enterprises, the society and the environment, today and tomorrow.

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