



CARBON STEEL WIRE

LOW / MEDIUM / HIGH CARBON | CONTROLLED PERFORMANCE | CUSTOMIZED SUPPLY | 2026

Controlled carbon steel wire for forming, fastening and industrial processing.

Selected carbon-steel wire rod is drawn, heat treated and surface finished to the confirmed flexibility, tensile strength, elongation, surface condition and downstream processing requirements.

DIAMETER RANGE

0.50-6.00 mm or customized to the confirmed purchase order.

CARBON OPTIONS

Low-carbon, medium-carbon or high-carbon steel for the approved use.

TENSILE RANGE

Approximately 350-1,800 MPa or customized to confirmed requirements.

SHIJIAZHUANG EVERSTAR HARDWARE MACHINERY CO., LTD.

Quality creates long-term partnerships.

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02 PRODUCT CATALOGUE

EVERSTAR AT A GLANCE

Wire-processing experience, controlled production and export support



EVERSTAR MANUFACTURING SITE | WUJI, SHIJIAZHUANG, HEBEI, CHINA

Founded in 1999, Shijiazhuang Everstar Hardware Machinery Co., Ltd. has developed from a wire-processing factory into a global construction-hardware manufacturer. Carbon steel wire is supplied in low-carbon, medium-carbon and high-carbon options for flexibility, tensile strength, forming and further processing requirements.

Production is coordinated against the confirmed steel type, grade, diameter, tensile strength, temper, surface treatment, delivery form, coil or spool configuration, labels and export packing of each order.

1999 ESTABLISHED	58,000 m² FACTORY AREA	45 PRODUCTION LINES
210 EMPLOYEES	25 R&D ENGINEERS	10 QC INSPECTORS

Buyer Support

01 Specification confirmation Steel type, grade, diameter, tensile strength, temper and surface.	02 Customization Delivery form, coil weight, winding, spool, labels and export packing.
03 Quality coordination Sample approval, inspection plan and order-specific acceptance records.	04 Export support Moisture protection, shipping marks and commercial documents.

PRODUCT OVERVIEW

Low-carbon, medium-carbon and high-carbon wire for controlled processing performance



EVERSTAR Carbon Steel Wire is manufactured from selected carbon-steel wire rod through controlled wire drawing, heat treatment and surface finishing. Low-carbon, medium-carbon and high-carbon wire can be produced according to different requirements for flexibility, tensile strength, elongation, surface condition and further processing.

Final acceptance follows the written purchase order or approved sample. Confirm steel type and grade, diameter in millimetres, tensile strength, temper, surface treatment, delivery form, coil or spool configuration and packing.

Core Product Advantages

BROAD MATERIAL RANGE Low-carbon, medium-carbon or high-carbon steel matched to the application.	CONTROLLED PERFORMANCE Approximately 350-1,800 MPa with soft annealed, medium hard, hard drawn or heat-treated options.	FLEXIBLE SUPPLY FORMS Coils, spools, jumbo coils or straightened and cut lengths with customized packing.
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CARBON RANGE & SUPPLY FORMS

Material, temper, surface and delivery options matched to the confirmed application



Carbon content, drawing reduction, heat treatment and surface finish are coordinated to balance flexibility, tensile strength, elongation and downstream forming. The exact high-carbon grade and mechanical target follow the confirmed application requirement.

LOW CARBON Q195, Q235, SAE1006, SAE1008 or equivalent for general tying, mesh, fencing and forming.	MEDIUM CARBON Produced to confirmed grade and mechanical requirements for balanced strength and formability.	HIGH CARBON Grade and performance are confirmed for springs, fasteners and strength-critical forming processes.
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Confirm Before Production

01 MECHANICAL PERFORMANCE Confirm approximately 350-1,800 MPa target plus temper and elongation requirements.	02 SURFACE TREATMENT Bright drawn, black annealed, oiled, electro galvanized, hot-dip galvanized or phosphate-coated.
03 DIMENSIONS Confirm diameter, tolerance, coil weight, winding direction and spool size where applicable.	04 DELIVERY FORM Coils, spools, jumbo coils or straightened and cut lengths for the downstream process.

ORDER NOTE | Final grade, tensile strength, temper, surface and acceptance basis follow the confirmed purchase order or approved sample.

05 PRODUCT CATALOGUE

TECHNICAL SPECIFICATIONS

Commercial supply scope based on the confirmed EVERSTAR carbon steel wire specification

FINAL PRODUCT REQUIREMENTS FOLLOW THE PURCHASE ORDER, APPROVED SAMPLE AND CONTRACT.	
PARAMETER	STANDARD SUPPLY / AVAILABLE OPTION
Product	Carbon Steel Wire
Alternative names	Low Carbon Steel Wire / High Carbon Steel Wire / Drawn Steel Wire
Brand	EVERSTAR
Material / steel type	Carbon steel; low carbon, medium carbon or high carbon
Common low-carbon grades	Q195, Q235, SAE1006, SAE1008 or equivalent
High-carbon grades	According to confirmed mechanical and application requirements
Wire diameter	0.50-6.00 mm or customized
Tensile strength	Approximately 350-1,800 MPa or customized
Temper	Soft annealed, medium hard, hard drawn or heat treated
Surface treatment	Bright drawn, black annealed, oiled, electro galvanized, hot-dip galvanized or phosphate-coated
Wire shape	Round wire
Delivery form	Coils, spools, jumbo coils or straightened and cut lengths
Coil / spool	Coil weight customized; plastic, wooden or steel spools according to requirement
Diameter tolerance	According to confirmed specification
Coil direction	Random wound, level wound or customized
OEM / origin	Customized grade, diameter, strength, surface, coil, label and packing; Hebei, China

Specification note: final grade, tolerances, elongation, surface acceptance, delivery configuration and packing follow the written purchase order or approved sample.

06 PRODUCT CATALOGUE

DIAMETER & THEORETICAL WEIGHT REFERENCE

Millimetre diameter is the acceptance basis; weights support quotation planning

Theoretical carbon-steel weights below use density 7.85 g/cm³. Surface treatment and production tolerance may affect the actual finished weight, which is confirmed by the order and packing record.

WIRE DIAMETER	THEORETICAL BASE-STEEL WEIGHT (KG/KM)
0.50 mm	1.54
0.70 mm	3.02
0.80 mm	3.95
1.00 mm	6.17
1.20 mm	8.88
1.60 mm	15.78
2.00 mm	24.66
2.50 mm	38.53
3.00 mm	55.49
4.00 mm	98.64
5.00 mm	154.13
6.00 mm	221.94

Calculation Reference

THEORETICAL KG/KM = 6.165 × d² | d = NOMINAL WIRE DIAMETER IN mm

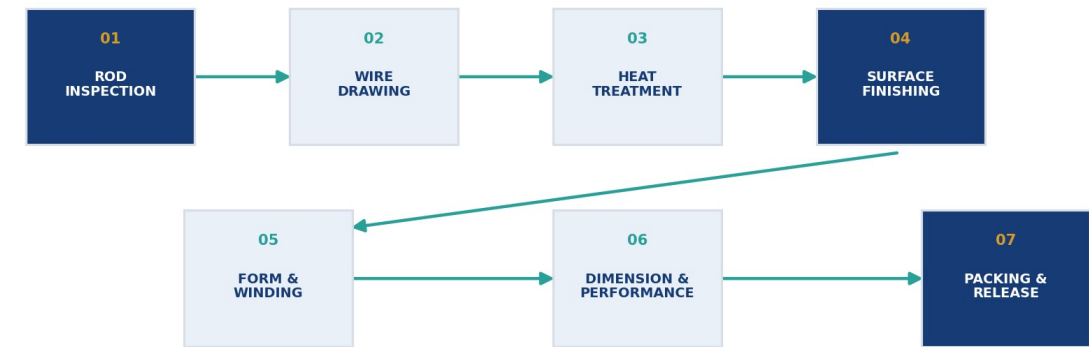
MILLIMETRES FIRST Confirm actual diameter in mm; gauge references are secondary.	FINISHED WEIGHT Surface treatment and tolerance can change actual mass; net weight follows the packing record.	SUPPLY CONFIGURATION Coil, spool, jumbo-coil or cut-length details are buyer-confirmed.
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MANUFACTURING & QUALITY CONTROL

Controlled drawing, heat treatment, surface finishing, winding and release checks

CONTROLLED CARBON STEEL WIRE PRODUCTION FLOW



Drawing, heat treatment, surface finishing and final release are controlled against the confirmed order specification.

Selected carbon-steel wire rod is inspected and drawn to the confirmed size. Heat treatment, surface finishing, delivery-form preparation and final inspection are coordinated against the order-approved grade, diameter, tensile strength, temper, surface and packing requirements.

Quality Control Plan

STAGE	CONTROL FOCUS	BASIS
Incoming material	Material/grade records and wire-rod condition	Each supplied lot
Diameter	Micrometer check against confirmed size and tolerance	Production lot
Drawing / heat treatment	Process condition for confirmed temper and downstream performance	Production setup
Surface	Bright drawn, annealed, oiled, galvanized or phosphate finish against order	As agreed
Performance	Approximately 350-1,800 MPa target plus temper and elongation requirements	As agreed
Delivery form	Winding, coil weight, spool or straightened cut-length condition	Production lot
Packing	Protection, labels, shipping marks and pallet plan	Final release

RELEASE BASIS | Grade + diameter + tensile / temper + surface + delivery form + packing

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PACKING & EXPORT PROTECTION

Customized coil, wrap and pallet plans for handling, storage and delivery



Packing Options

COILS / JUMBO COILS Buyer-specified net weight, random or level winding, inner dimensions and securing method.	SPOOLS / CUT LENGTHS Plastic, wooden or steel spools and cut-length bundles customized for the order.	PALLETIZED EXPORT Coils, spools, bundles, cartons or bags arranged on pallets with confirmed shipping marks.
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Recommended Export Protection

01 MOISTURE-RESISTANT WRAP Plastic film or buyer-approved moisture-resistant inner protection.	02 BAG / CARTON SELECTION Woven bags or cartons selected according to coil size and handling route.
03 DESICCANT WHEN REQUIRED Quantity planned according to packing volume, transit and storage conditions.	04 LABEL & SHIPPING MARK Steel type/grade, diameter, tensile/temper, surface, unit weight, lot, brand and origin.

STORAGE NOTE | Keep carbon steel wire dry and protected from corrosive chemicals, condensation and trapped moisture.

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APPLICATIONS & ORDER CONFIRMATION

Match grade, diameter, mechanical performance, surface and delivery form to the actual use

Carbon steel wire is used for tying, mesh, fencing, nails, fasteners, springs, baling and industrial forming. Final suitability depends on the confirmed grade, dimensions, mechanical performance, surface condition, delivery configuration and downstream process.

Application Areas

01 TYING & BALING Soft annealed or specified wire for binding, baling and general securing.	02 WIRE MESH Weaving and fabrication for buyer-specified mesh products.	03 FENCING Fence-wire and component production using the confirmed grade and surface.
04 NAILS & FASTENERS Drawn wire for buyer-approved nail, fastener and fixing production.	05 SPRINGS High-carbon wire supplied to confirmed mechanical and processing requirements.	06 INDUSTRIAL FORMING Formed parts and components for general manufacturing.

Purchase Order Checklist

ITEM	CONFIRM BEFORE MASS PRODUCTION
Wire	Diameter in mm, tolerance and round-wire requirement
Steel type / grade	Low, medium or high carbon; Q195, Q235, SAE1006, SAE1008 or confirmed grade
Performance	Approximately 350-1,800 MPa target, temper and elongation
Surface	Bright drawn, black annealed, oiled, electro galvanized, hot-dip galvanized or phosphate-coated
Supply form	Coil, spool, jumbo-coil or straightened and cut-length configuration
Winding / spool	Random or level wound; plastic, wooden or steel spool where required
Packing	Bag/carton/pallet, labels, shipping marks and documents
Approval	Sample, inspection report and final commercial specification

LIMITATION | Structural load, lifting, safety-critical, spring-critical or electrical use requires separate engineering and certification.

CONTACT EVERSTAR

Factory-direct support for Carbon Steel Wire and customized wire products



QUALITY CREATES LONG-TERM PARTNERSHIPS

CARBON STEEL WIRE | DRAWN STEEL WIRE | CUSTOMIZED SUPPLY

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1999

ESTABLISHED

58,000 m²

FACTORY AREA

45

PRODUCTION LINES

SHIJIAZHUANG EVERSTAR HARDWARE MACHINERY CO., LTD.

Qiji Town Industrial Zone, Wuji County, Shijiazhuang City, Hebei Province, China

CUSTOMIZED MANUFACTURING | QUALITY CONTROL | EXPORT SUPPORT