Shandong Xin Wugang Steel

WIRE & MESH PRODUCT CATALOG

WIDELY USED

STEEL WIR

ROPE & STRAND

WIRE MESH



HIGH STRENGTH | STABLE QUALITY | CUSTOMIZABLE

About us.

山东鑫武钢铁有限公司是一家综合性钢铁企业，深耕钢铁行业多年，依托完善的产业链布局、先进的生产装备、严苛的质量体系和贴心的全域服务，稳步发展为具有竞争力与口碑的标杆型钢铁企业，广泛服务于基建工程、机械制造、汽车工业、钢结构等多个核心领域。公司秉持客户至上、诚信为本、服务为先的经营宗旨，打造一站式全周期贴心服务体系。持续为客户提供高品质钢铁产品与一站式优质服务，致力于打造国内一流的现代化钢铁综合服务商与各界合作伙伴携手共赢、共创未来!

Shandong Xinwugang Steel Co., Ltd. is a comprehensive iron and steel enterprise with years of profound experience in the steel industry. Backed by a complete industrial chain layout, advanced production equipment, stringent quality management systems and thoughtful all-round services, we have steadily grown into a benchmark steel enterprise with strong competitiveness and a solid reputation. Our products widely serve a host of core sectors including infrastructure engineering, machinery manufacturing, automobile industry and steel structure construction.

Adhering to the business tenets of "customer supremacy, integrity-based operation and service first", the company has built a one-stop full-cycle considerate service system. We consistently supply high-quality steel products and all-in-one premium services to clients, and strive to become a first-class modern comprehensive steel service provider nationwide. We look forward to win-win cooperation and a shared bright future with all partners from all walks of life!

The most dynamic enterprise
and leader in the steel trading industry.

最具活力企业，钢铁贸易行业的领导者。



STEEL WIRE

GALVANIZED STEEL WIRE





Description- Galvanized Steel Wire :

Standard: GB/T 343-2012、GB/T 15393-2017、EN 10244-1、EN 10244-2、EN 10218、ASTM A641/A641M、ASTM A1064、JIS G3547、ISO 7989
Grade: Q195、Q235、SAE1006、SAE1008
Metric wire gauge standard models: 0.2、0.3、0.4、0.5、0.6、0.8、1.0、1.2、1.4、1.6、1.8、2.0、2.2、2.5、2.8、3.0、3.5、4.0、4.5、5.0、6.0
British Standard Wire Gauge (SWG): 24#、23#、22#、21#、20#、19#、18#、17#、16#、15#、14#、13#、12#、11#、10#、9#、8#、7#、6#
Galvanized grade:
Class A light galvanized: Zinc layer 40-80g/m^2, indoor, short-term use, ordinary bundling
Galvanized in Class B: Zinc layer of 80-120g/m^2, suitable for outdoor use, livestock fencing, and agricultural bundling (the most mainstream procurement grade worldwide)
Class C heavy galvanizing: Zinc layer 120~275g/m^2, high corrosion along the coast, ports, water conservancy, outdoor long-term security
Extra Heavy Galvanized: Over 300g/m^2, suitable for chemical, island, and seawater immersion scenarios
Conventional standard size:
Wire diameter tolerance: ± 0.02mm (fine wire 0.2~1.0mm); ± 0.05mm (thick line 1.2-6.0mm)
Standard roll weight: 1kg, 5kg, 10kg, 25kg, 50kg, 100kg, 200kg, 500kg, 1000kg industrial large roll
Fixed length straight wire: 10cm, 20cm, 30cm, 40cm, 50cm, 1m, 2m, 3m, 6m (special cutting wire for building binding)
Inner diameter of wire reel: 100mm, 200mm, 300mm, 400mm, 500mm, 600mm (standard roll for export tray)
Surface process:
Hot Dipped Galvanized (HDG, mainstream)
ElectroGalvanized (EG, thin zinc layer, indoor specific)
Bright passivation, blue white passivation, color zinc passivation (to enhance corrosion resistance and appearance)
Application:
①Construction engineering: steel bar binding wire, concrete embedded binding wire, scaffold fixing wire.
②Agricultural breeding: orchard pruning, breeding cages, chicken cages, rabbit cages, greenhouse skeleton binding.
③Security fence: hook mesh, welded mesh, guardrail mesh raw materials, ordinary barbed wire substrate.
④Communication power: fiber optic cable bundling, power cable fixation, overhead ground wire auxiliary materials.
⑤Packaging and bundling: cardboard boxes, pipes, and metal sheets for packaging and bundling.
⑥Water conservancy port: river protection net, port protection fence, temporary coastal support bundling.

Product Description

ANNEALED STEEL WIRE





Description- Annealed Steel Wire :

Standard: GB/T 343-2012； EN 10218； ASTM A510； JIS G3532； ISO 16120

Grade: Q195, SAE1006, SAE1008 low-carbon wire rod

Metric wire diameter standard model (mm):

0.4、0.5、0.6、0.8、1.0、1.2、1.4、1.6、1.8、2.0、2.5、3.0、3.5、4.0、4.5、5.0、6.0

British SWG line gauge:

22#(0.27mm)、21#(0.31mm)、20#(0.34mm)、19#(0.40mm)、18#(0.48mm)、17#(0.56mm)、16#(0.64mm)、14#(0.80mm)、12#(1.04mm)、10#(1.37mm)、8#(1.63mm)、6#(2.03mm)、4#(2.64mm)、2#(3.26mm)、0#(4.06mm)

Annealing grade:

Light Annealed Mild Annealing: Moderate hardness, not easy to break when bent, universal packaging and bundling.

Full Annealed (Soft Wire): High ductility, repeated bending without cracks, specialized for building binding wire and woven mesh (main force in foreign trade procurement).

Extra Soft Annealed: Hand bending, craft weaving, small hand tying.

Conventional standard size:

Wire diameter 0.4~6.0mm; roll weight 1kg~1000kg; Cut the straight wire 10cm~6m; The inner diameter of the spool is 200~600mm

Surface treatment: Black annealing natural color (oxidized black skin), bright annealing (acid pickling to remove oxidized skin, no coating)

Application:

Construction: Concrete reinforcement binding wire (economical binding wire is preferred for infrastructure in the Middle East and Africa).

Packaging industry: Packaging and bundling of cardboard boxes, steel pipes, and profiles.

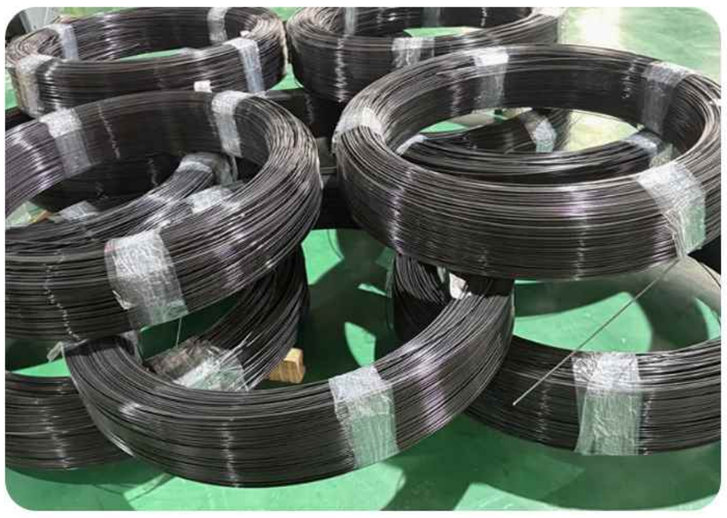
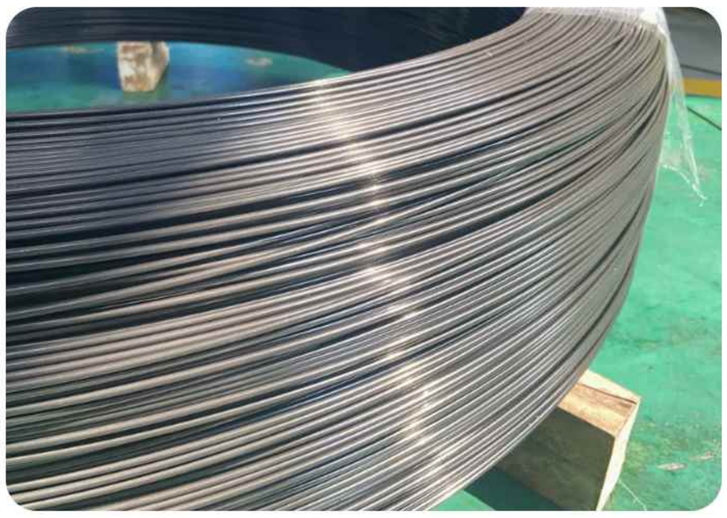
Hand woven: handicrafts, flower baskets, small wire mesh woven substrates.

Horticulture: binding seedlings and fixing small fruit trees.

Temporary construction site: Temporary fencing, simple fixation of scaffolding.

Product Description

SPRING STEEL WIRE

Description- Spring Steel Wire :

Standard: GB/T 4357-2018；EN 10270；ASTM A228/A229；JIS G3560；ISO 10270

Grade: SWP-A、SWP-B、SWP-C、SWP-V、ASTM A228 Music Wire、ASTM A229 Oil Tempered Carbon Spring Wire、EN 10270 SH、EN 10270 DH、EN 10270 VDH、65# Spring Wire、70# Spring Wire、65Mn Spring Wire、82B High Carbon Spring Wire

Metric wire diameter standard model (mm):

0.1、0.15、0.2、0.3、0.4、0.5、0.6、0.8、1.0、1.2、1.5、1.8、2.0、2.5、3.0、3.5、4.0、4.5、5.0、6.0、7.0、8.0、9.0、10.0、11.0、12.0

Conventional standard size:

Wire diameter 0.1mm~12.0mm; Tolerance ± 0.01~± 0.05mm; standard disc weight 25kg, 50kg, 100kg; Straight strips with a fixed length of 1m, 3m, and 6m.

Surface treatment: Bright drawing, oil tempering, phosphating coating, galvanized spring wire, stainless steel spring wire (composite category).

Application:

Automotive industry: shock absorber springs, brake springs, seat springs, engine valve springs.

Mechanical manufacturing: mold springs, engineering machinery buffer springs, precision springs for instruments and meters.

Hardware daily necessities: lock springs, stationery springs, kitchenware elastic accessories.

Rail Transit: Rail Shock Absorber Springs, Locomotive Elastic Accessories.

Home appliances: refrigerators, washing machines, air conditioners, internal elastic components.

Product Description

◆ STAINLESS STEEL WIRE





Description- Stainless Steel Wire :

Standard: GB/T 4356； EN 10088； ASTM A555； JIS G4309； ISO 16143

Grade: 201/202: Economy type, dry indoor weaving, ordinary wire mesh

304 (1.4301): Universal corrosion-resistant, with the largest global procurement volume, suitable for outdoor and freshwater environments

316/316L (1.4401/1.4404): resistant to seawater, acid and alkali, specialized for coastal, chemical, and seawater equipment

410/430: ferritic stainless steel, cutting tools, magnetic springs, low corrosion dry environment

Hardness grade (HV Vickers hardness grading, clearly marked for overseas orders):

Soft HV150~220: Weaving, bending, welding mesh

Medium medium hard HV250~350: universal hardware, bundled

Hard state HV380~480: stainless steel spring, high-strength screen mesh

Metric wire diameter standard model (mm):

Microfilaments: 0.03, 0.04, 0.05, 0.06, 0.08, 0.10, 0.12, 0.15, 0.20, 0.25, 0.30

Conventional industrial silk: 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 7.0, 8.0

Conventional standard size:

Microfilaments 0.03~0.3mm (filter); Conventional wire 0.4~8.0mm; roll weight 5kg~500kg; Straight thread length of 1-6m.

Surface treatment: Bright hydrogen annealing, matte drawing, electrolytic polishing, galvanized stainless steel wire (very rare).

Application:

Wire mesh weaving: stainless steel welded mesh, screen mesh, filter mesh, food grade filter mesh

Security and anti-corrosion measures: coastal fence net, seawater aquaculture net, chemical plant protection net

Hardware springs: stainless steel corrosion-resistant springs, medical device elastic accessories

Food and medicine: bundling of food processing equipment, pharmaceutical filtration, sterile equipment wires

Marine engineering: seawater aquaculture cages, ship protection nets, island anti-corrosion binding wires.

Detailed specifications

Mainstream brand performance parameters

1.Basic Chemical Composition Reference (Low Carbon Steel Wire)

化学元素 Chemical element	含量标准（质量分数） Content standard (quality score)	性能作用 Performance Function
碳（C）	≤0.12%	低碳保证超高韧性、易折弯不断丝 Low carbon ensures ultra-high toughness, easy bending and continuous threading
锰（Mn）	0.30–0.60%	细化晶粒、均衡强度与韧性 Refine grain size, balance strength and toughness
硅（Si）	≤0.30%	脱氧净化，保证表面质量 Deoxygenation purification to ensure surface quality
P/S 杂质	≤0.035%	严控杂质，杜绝脆断、锈蚀缺陷 Strictly control impurities, eliminate brittle fracture and rust defects

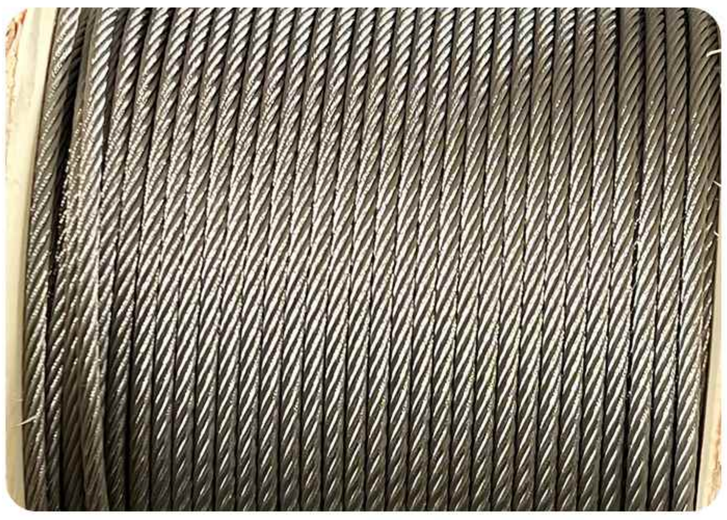
2.Comparison Table of Mechanical Properties of Mainstream Categories

产品品类 Product category	抗拉强度(MPa) Tensile strength	延伸率(%) Elongation rate	核心特性 Core Features	适用加工场景 Applicable processing scenarios
低碳退火软丝 Low carbon annealed soft wire	300–500	≥15	超软高韧、易弯折 Ultra soft, high toughness, easy to bend	建筑钢筋捆扎、手工编织 Building steel reinforcement bundling and manual weaving
镀锌中硬丝 Galvanized medium hard wire	500–800	≥10	强度韧性均衡、防锈 Balanced strength and toughness, rust prevention	铁丝网、围栏、养殖网 Wire mesh, fence, breeding net
高碳弹簧钢丝 High carbon spring steel wire	1600–2200	≥4	高回弹、抗疲劳 High rebound and fatigue resistance	工业弹簧、弹性配件 Industrial springs and elastic components
201不锈钢丝 201stainless steel wire	520 ~ 720	≥35	韧性优异、易折弯编织 Excellent toughness, easy to bend and weave	装饰网、普通五金制品、民用编织件 Decorative nets, ordinary hardware products, civilian woven parts

ROPE & STRAND

Product Description

♦ STEEL WIRE ROPE







Description- Steel Wire Rope :

Standard: GB/T 20118-2017； EN 10264； ASTM A1023； JIS G3525； ISO 2408

Grade: 60 #, 65 #, 70 #, 82B high carbon steel wire rods; Stainless steel 304/316

Core structure model:

6 × 7, 6 × 12, 6 × 19, 6 × 19S, 6 × 19W, 6 × 37, 6 × 61, 18 × 7 multi-layer non rotating steel wire rope, 30 × 7, 35 × 7;

Divided by rope core: FC fiber core, IWR/IWRC metal steel core;

Surface models: smooth steel wire rope, galvanized steel wire rope, stainless steel steel wire rope

Tensile strength grade:

1570MPa, 1670MPa, 1770MPa, 1870MPa, 1960MPa, 2160MPa (ultra-high strength)

Anti corrosion grade: glossy, hot-dip galvanized Class B, hot-dip galvanized Class C, stainless steel anti-corrosion grade

Conventional standard size:

Wire rope diameter: 1 mm、2mm、3mm、4mm、5mm、6mm、8mm、10mm、12mm、14mm、16mm、18mm、20mm、22mm、24mm、26mm、28mm、30mm、32mm、36mm、40mm、50mm;

Standard sizing: 100m, 200m, 500m, 1000m/roll; Customizable to any length;

Surface treatment: Smooth surface (uncoated), hot-dip galvanized, stainless steel original color, coated with oil for rust prevention (factory lubricating grease).

Application:

Lifting and hoisting: tower crane, crane, port gantry crane, ship crane lifting rope.

Mining engineering: mine hoisting, mine winch traction, underground support sling.

Ship ocean: ship mooring ropes, ship cranes, offshore platform slings (galvanized/stainless steel).

Cableway Cable Car: Passenger Cableway, Mountain Cableway Traction Rope.

Construction machinery: excavator, crane, elevator traction wire rope.

Security tightening: Guardrail tightening, mountain slope protection net rope.

Product Description

PC STRAND





Description- PC Strand :

Standard: GB/T 5224-2014； EN 10138； ASTM A416/A416M； JIS G3536； ISO 6934

Grade: 82B High Carbon Steel High Quality Wire Rod

Core structure model:

International standard structure: 1 × 2, 1 × 3, 1 × 7 (global mainstream), 1 × 19;

Standard nominal diameters: 9.53mm, 12.7mm, 15.2mm, 15.7mm, 17.8mm;

Subdivision: ordinary prestressed steel strand, low relaxation PC strand, galvanized PC strand, epoxy coated PC strand.

Strength grade (MPa): 1720, 1860, 1960, 2000, 2160

Relaxation level: Normal Relaxation NR (Low end civilian small components)

Low Relaxation LR (High speed rail, bridge, large-scale prestressed engineering, 90% of global procurement main force)

Anti corrosion grade: Smooth, hot-dip galvanized, epoxy coating (for marine/high corrosion bridges)

Conventional standard size: Mainstream 1 × 7 structure:

Φ 9.53mm (theoretical weight 432 kg/km) 、Φ12.7mm（775kg/km）、Φ15.2mm（1101kg/km）、Φ15.7mm（1175kg/km）、Φ17.8mm（1540kg/km）；

Standard reel length: 2000m, 3000m, 5000m/reel; Seamless whole roll production.

Surface treatment: Smooth surface coating with lubricating anti rust oil, hot-dip galvanizing, epoxy powder full coating, galvanized aluminum composite coating.

Application:

Bridge engineering: prestressed main reinforcement for large-span highway bridges, railway box girders, and cable-stayed bridges (the largest procurement scenario for global infrastructure)

High speed rail transit: ballastless track slab, bridge box girder, platform prestressed components

Large scale buildings: prestressed factory buildings, large-span sports halls, exhibition centers, underground pipe galleries

Water conservancy dams: reservoir body, river prestressed slope protection, pumped storage power station

Rock and soil anchoring: mountain slope anchoring, foundation pit support anchoring, anti floating anchoring

Marine engineering: Cross sea bridges, pier high pile caps, island prestressed components (epoxy coated)

Detailed specifications

Detailed technical data of steel wire rope

Comparison Table of Mainstream Structural Specifications and Breaking Force

结构型号 Structural model	常用直径(mm) Common diameter	绳芯 Rope core	1870MPa最小破断拉力(kN) 1870MPa minimum breaking force	核心特点 Core Features
6×19+FC	6/8/10/12/14/16/18/20	纤维芯 Fiber core	18 ~ 220	柔韧耐磨、储油润滑、性价比高 Flexible and wear-resistant, oil storage lubrication, high cost-effectiveness
6×19+IWRC	6/8/10/12/14/16/18/20	钢芯 steel core	22 ~ 260	抗挤压、耐高温、不破扁、承载力高 Resistant to compression, high temperature, no breakage or flattening, high bearing capacity
6×37+FC	8/10/12/16/20/24/28/32	纤维芯 Fiber core	28 ~ 560	高柔性、耐反复弯折、抗疲劳 High flexibility, resistance to repeated bending, and fatigue resistance
6×37+IWRC	8/10/12/16/20/24/28/32	钢芯 steel core	32 ~ 620	柔韧兼顾、重载耐造、寿命长 Flexibility, heavy-duty durability, long service life
6×61+FC	10/12/16/20/24/30/40	纤维芯 Fiber core	45 ~ 780	超柔软、极致抗弯曲、不易疲劳 Ultra soft, ultimate bending resistance, and not easily fatigued
18×7+IWRC	6/8/10/12/16/20/24/28	钢芯 steel core	20 ~ 420	低旋转、不起扭、起吊平稳 Low rotation, no twisting, smooth lifting

Detailed technical data of PC Strand

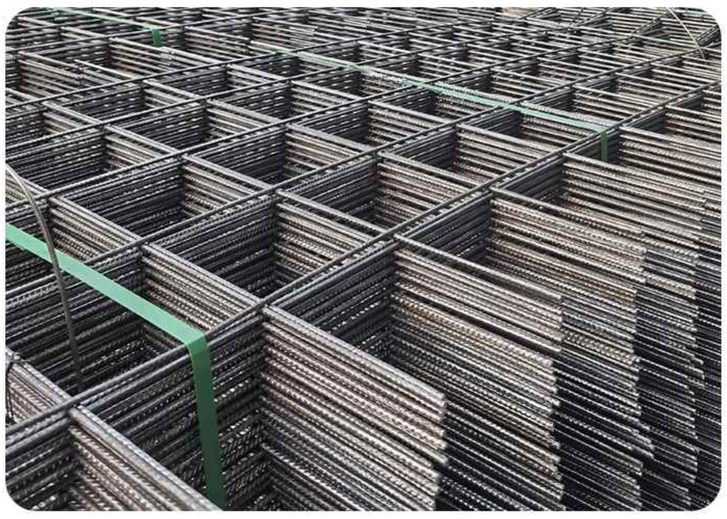
Core Performance Parameters Table of 1 × 7 Standard Steel Stranded Wire (1860MPa Low Relaxation)

公称直径(mm) Nominal diameter	公称截面积(mm²) Nominal cross-sectional area	理论重量(kg/km) Rope core	最小破断拉力(kN) Minimum breaking force	1%伸长载荷(kN) 1% elongation load
9.50	54.8	432	102	92.0
12.70	98.7	775	184	166.0
15.20	140.0	1101	260	234.0
17.80	191.0	1500	355	311.0

WIRE MESH

Product Description

♦ REINFORCING MESH






Description- Reinforcing Mesh :

Standard: GB/T 1499.3、GB/T 33365-2016、EN 10080、EN 10244、ASTM A615/A1064、AS/NZS 4671、GOST 23279-2012、GOST 5781-2019、GOST 9045-93、ISO 10204

Grade: Q235B、HRB400、HRB500、CRB550 (Cold-rolled Ribbed)、S500B、B500A、B500B、Grade 400, Grade 500 (A615 Standard)、Ст3пс、Ст3сп（Ст=Сталь low carbon steel）、A400C（Corresponding to HRB400）、A500C（Corresponding to HRB500）、B500C Cold rolled ribbed strip

Conventional standard size:

Wire diameter: 4mm, 5mm, 6mm, 8mm, 10mm, 12mm

Mesh size: 50 × 50, 100 × 100, 150 × 150, 200 × 200, 300 × 300mm

Sheet standard: 1.2m × 2.4m, 2m × 4m, 2.4m × 6m

Mesh standard: width 1m/1.2m/2m, roll length 50m/100m

Tolerance: Mesh spacing ± 3mm, welding point shear resistance meets the standards of each region; Russian GOST allows a deviation of ± 4mm.

Surface treatment: Hot rolled black skin, cold drawn bright, hot-dip galvanized HDG, epoxy anti-corrosion coating, passivation sealing (galvanized matching).

Corrosion resistance grade:

Plain Black: Indoor dry concrete, short-term construction site.

Class B Hot Dipped Galvanized: Outdoor Ordinary Municipal, Freshwater Environment.

Class C Heavy HDG Heavy Galvanized: Coastal, Port, Water Conservancy Engineering.

Epoxy Coated: Chemical, seawater immersion, high corrosion island engineering.

Application:

Building construction project: floor slab, basement floor slab, roof waterproof protection layer, wall anti cracking mesh.

Road municipal: highway pavement, airport runway, parking lot heavy-duty floor, sidewalk.

Tunnel subway: shield tunnel lining, subway station floor slab, underground pipe gallery lining.

Bridge water conservancy: bridge deck paving, reservoir slope protection, channel concrete lining.

Industrial flooring: factory heavy-duty workshop, warehouse logistics flooring, container yard hardened layer.

Description- Reinforcing Mesh :

Regional specific standardized models:

AS/NZS SL series finalized models for the Australia New Zealand market:

SL52、SL62、SL72、SL82、SL92、SL102、SL112、SL122；

Supporting subdivision: RL road dedicated network, TL Mesh dedicated to T-beam bridges.

European standard C/D/E series standardized models (EN 10080) for the European and American markets:

C5、C6、C8、C10、C12； D5、D8、D10； E8, E10 (C=lightweight flooring, D=bridge heavy load, E=tunnel lining)

ASTM W series standardized model:

W4.0, W5.0, W6.0, W8.0, W10.0 (number=steel bar cross-sectional area mm ²)

Russian GOST standard standardized model:

Smooth round steel mesh: XBR -1, XBR -2, XBR -3, XBR -4 (XBR=welded mesh)

Ribbed high-strength steel mesh: A 400 ℃, A 500 ℃ Shaped mesh models: Rc4, Rc5, Rc6, Rc8, Rc10, Rc12

Russian standard mesh size code: C 100, C 150, C 200 (C=шаг ячейки **Mesh spacing** mm)

Detailed specifications

1.Core mechanical properties of mainstream grades

钢筋牌号 Steel bar grade	屈服强度Rp 0.2(MPa)≥ Yield strength	抗拉强度Rm (MPa)≥ Tensile strength	断后伸长率(%) Elongation after fracture	强度设计值(MPa) Strength design value	弹性模量(MPa) Elastic modulus
HPB300	≥300	≥420	≥25	270	2.0×10^5
HRB400	≥400	≥540	≥16	360	2.0×10^5
CRB550	≥500	≥550	≥8.0	400	2.0×10^5

2.Shear strength standard for solder joints

钢筋牌号 Steel bar grade	焊点最小抗剪力标准 Minimum shear resistance standard for solder joints	性能说明 Performance Specifications
HPB300	≥90×As（N）	As为单根钢筋公称截面积，焊点韧性好、抗剪切形变能力强 As is the nominal cross-sectional area of a single steel bar, with good weld toughness and strong shear deformation resistance
HRB400	≥120×As（N）	焊点强度高、抗冲击，适配重载结构配筋 High weld strength, impact resistance, suitable for heavy-duty structural reinforcement
CRB550	≥150×As（N）	焊点刚性大、抗剪力最优，整体结构稳定性极强 Welding points have high rigidity and optimal shear resistance, and the overall structural stability is extremely strong

Product Description

♦ WELDED WIRE MESH





Description- Welded Wire Mesh :

Standard: GB/T 3328-2008；EN 10244；ASTM A641；JIS G3547；ISO 1461；GOST 3826-2019、GOST 15393-2017

Grade: Q195、Q235、SAE1006/1008、S235JR、Low carbon wire rod with options of Ст0、Ст1、Ст3пс、201、202、304 (1.4301)、316/316L (1.4404)；08X18H10（304）、03X17H13M2（316L）

Conventional standard size:

Web roll: width 0.5m/1m/1.2m/1.5m/2m, roll length 30m/50m/100m

Mesh: 1 × 2m, 1.2 × 2.4m, 2 × 4m

Wire diameter of 0.4~6mm can be matched with any mesh, with a tolerance of ± 0.05mm for wire diameter

Surface treatment: Black annealed natural color, electroplated zinc, hot-dip galvanized, PVC impregnated plastic coating, stainless steel bright hydrogen annealing, blue and white passivated zinc coating.

Metric specification model (wire diameter+mesh):

Wire diameter: 0.4 mm、0.5mm、0.6mm、0.8mm、1.0mm、1.2mm、1.6mm、2.0mm、2.5mm、3.0mm、4.0mm、5.0mm、6.0mm

Standard mesh size mm: 6 × 6, 10 × 10, 12.5 × 12.5, 20 × 20, 25 × 25, 50 × 50, 75 × 75, 100 × 100

European and American inch models: 1/4 ", 1/2", 1 ", 2", 3 ", 4"

Mesh hole; BWG Wire Gauge 14 #~6#

Corrosion resistance grade:

Black Annealed black silk (indoor plastering, temporary use).

EG Electro Galvanized Zinc Plating (Drying Room).

HDG Class B/C hot-dip galvanizing (mainstream procurement grade for outdoor, aquaculture, and Russian markets).

PVC coated PVC dipping (outdoor high sun exposure).

Stainless 304/316 seawater resistant chemical grade.

Welding grade:

Standard Spot Weld, Heavy Full Weld (Heavy Load Bearing).

Description- Welded Wire Mesh :

Application:

Building plastering: anti cracking plastering net for interior and exterior walls, and reinforcement net for insulation layer (essential for Russian residential infrastructure).

Livestock breeding: chicken cage, duck cage, rabbit cage, cattle and sheep breeding fence net.

Mechanical protection: machine tool protective cover, equipment safety isolation net.

Horticultural planting: nursery protection, greenhouse enclosure.

Food and medicine: 304/316 stainless steel screening and liquid filtration filter screen.

Detailed specifications

1.Mechanical Properties of Base Wire (Common Q195 Cold-drawn Low Carbon Steel Wire)

指标 Item	说明 Description	典型参考值 Typical Value
抗拉强度Rm(MPa) Tensile strength	钢丝单向拉伸极限应力 Unidirectional tensile ultimate stress of steel wire	380 ~ 550 MPa
屈服强度Rp(MPa) Yield strength	产生永久变形起始应力 Generate initial stress for permanent deformation	300 ~ 420 MPa
断后伸长率(%) Elongationafter fracture	塑性变形能力，延性指标 Plastic deformation capacity, ductility index	⩾8% ~ 12%
冷弯性能 Cold bending performance	工艺性能，180° 反复弯曲无裂纹 Process performance, 180 ° repeated bending without cracks	合格钢丝弯曲不断裂 Qualified steel wire bends without breaking

2.Mechanical properties of solder joints (the core indicator of welded mesh)

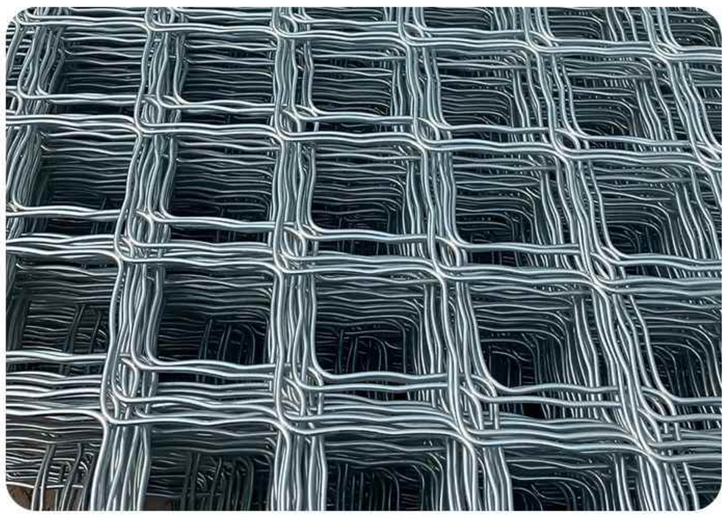
丝径 mm Wire Diameter	焊点抗拉力 ⩾ N Welding point tensile strength	丝径 mm Wire Diameter	焊点抗拉力 ⩾ N Welding point tensile strength
4.00	580	1.20	120
3.00	520	1.00	80
2.00	330	0.80	50
1.60	210	0.60	30
1.40	160	0.50	20

Product Description

FENCE MESH







Description- Fence Mesh :

Standard: EN 10244、ASTM A641、GB/T 3328、ISO 1461；GOST 12844-2019、GOST 14918-80

Grade: Q235 low-carbon steel wire、304 stainless steel、Ст3пс、Ст3сп Low carbon structural steel wire、08 X 18 H 10 stainless steel

Conventional standard size:

Mesh height: 1.0m, 1.2m, 1.5m, 1.8m, 2.0m, 2.4m

Single block length: 2m, 2.5m, 3m

Hook net roll width 1-4m, roll length 10-50m; 358 mesh 1.2 × 2.4m

Surface treatment: Hot dip galvanized base+PVC dipping (global outdoor mainstream), separately hot-dip galvanized, electroplated galvanized, 304 stainless steel original color.

Five major categories of internationally recognized models:

①Chain Link Fence: 50 × 50, 60 × 60, 75 × 75, 100 × 100mm mesh holes; Wire diameter 1.6mm/2.0mm/2.5mm

②Double Wire Fence: 50 × 100, 50 × 200mm mesh holes; Wire diameter 4.0/5.0mm

③3D Curved Fence Triangular Bend Peach shaped Column Guardrail: 50 × 200mm Standard Mesh

④Sports Fence Stadium Fencing: 45 × 45, 50 × 50 Hook Nets

⑤358 Anti Climb Security Mesh Anti Climbing Security Mesh: 12.5 × 75mm Small Holes

Anti corrosion grade (globally applicable):

EG galvanizing: temporary indoor enclosure

HDG hot-dip galvanized Class B/C: Outdoor foundation anti-corrosion (mainstream in the Russian market)

HDG+PVC Coated Galvanized Immersion Plastic Double Layer Anti Corrosion (Mandatory for Coastal Areas of Europe, America, and the Far East of Russia)

Stainless Steel 304: Coastal and Highly Corrosive Security

Security level:

Grade 1 civilian ordinary guardrail (park, road).

Grade 2 High Security 358 Anti Climbing (Airport, Detention Center).

Grade 3 ultra-high security prison/border protection (thickened wire diameter encrypted mesh).

Description- Welded Wire Mesh :

Application:

Municipal roads: highway guardrails, green belt isolation, factory enclosure protection.

Sports venues: basketball court, football field, tennis court fence.

Park area: factory walls, logistics park isolation, industrial park protection.

Security Restricted Area: Airport, Detention Center, Border Post 358 Anti Climbing High Safety Net.

Breeding agriculture: Farm boundary isolation, orchard anti-theft protection.

Detailed specifications

1.Low carbon hot-dip galvanized steel wire (most commonly used for fences)

指标 Item	说明 Description	典型参考值 Typical Value
抗拉强度Rm(MPa) Tensile strength	钢丝拉断前最大应力 Maximum stress before wire breakage	350 ~ 550 MPa
屈服强度Rp(MPa) Yield strength	发生塑性变形起始应力 Initial stress for plastic deformation	⩾220 MPa
断后伸长率(%) Elongationafter fracture	断裂前塑性变形能力 Plastic deformation ability before fracture	⩾10%
冷弯性能 Cold bending performance	钢丝绕自身直径弯曲，无裂纹 The steel wire is bent around its own diameter without cracks	⩾180°

2.Overall mechanical properties of mesh (finished fence mesh)

①Welding fence mesh (welding mesh, road/factory fence)

Welding point tensile strength: A single welding point can withstand tensile strength, and low-carbon steel wire welding points are generally ≥ 75% of the minimum tensile strength of a single wire; The solder joints must not slip or crack.

Tensile bearing capacity of mesh: Stretching along the direction of the mesh, determined by the diameter of the mesh and the mesh size.

Impact resistance: Drop hammer impact, used for protecting fences, distinguishing between ordinary fences and high safety fences against climbing.

Tear resistance: Under local stress, the mesh is not easily torn apart continuously; The smaller the wire diameter, the more likely it is to experience tearing and expansion.

②Hook net (diamond net, court, slope)

Features: No welding points, interconnected, good flexibility; Single filament breakage will not cause overall collapse.

Product Description

BARBED WIRE





Description- Barbed Wire :

Standard: GB/T 343； EN 10244； ASTM A641； ISO 7989； GOST 285-2019、GOST 15393

Grade: Q195/Q235 low-carbon steel wire; Russian standard GOST Ø T 0, Ø T 3 c low-carbon wire rod

Conventional standard size:

Standard roll weight: 25kg, 50kg, 100kg; Each roll is 500m, 1000m, 2000m in length

Spike distance 75/100/125/150mm optional

Surface treatment: Electroplated galvanizing, hot-dip galvanizing, PVC colored plastic coating.

International standard model:

Standard spacing: 75mm, 100mm, 125mm, 150mm

Wire diameter matching (globally applicable): mainline 1.6mm+wire 1.2mm, mainline 2.0mm+wire 1.4mm.

Structure model: Single Strand single strand barbed rope, Double Twist double strand twisted barbed rope.

Anti corrosion classification:

EG galvanizing (short-term construction site), HDG Class B medium galvanizing (farm civilian), HDG Class C heavy galvanizing (long-term protection of ports and borders, urgent needs in the Russian Far East), PVC coated color wrapped plastic barbed wire.

Security level:

Standard Grade civil orchard/construction site; Heavy Duty Grade Border and High Intensity Border Protection.

Application:

Farm orchard: orchard anti-theft, ranch boundary isolation, and perimeter protection of the breeding farm.

Factory construction site: temporary fence at the construction site, anti-theft measures at the top of the factory wall.

Municipal roads: high-speed slope protection, road median security.

Border security: isolation around rural borders and simple outposts.

Detailed specifications

1.Low carbon hot-dip galvanized steel wire (most commonly used for fences)

指标 Item	说明 Description	典型参数（低碳 Q195/Q235 镀锌丝） Typical parameters (low-carbon Q195/Q235 galvanized wire)
抗拉强度Rm(MPa) Tensile strength	断裂前最大应力 Maximum stress before fracture	Q195：315~420MPaQ235：370~500MPa高碳钢丝：800~1770MPa Q195:315~420MPa Q235:370~500MPa High carbon steel wire: 800~1770MPa
屈服强度Rp(MPa) Yield strength	开始产生永久塑性变形的应力 The stress that begins to generate permanent plastic deformation	Q195≥195MPa；Q235≥235MPa
断后伸长率(%) Elongationafter fracture	断裂前塑性变形能力，代表韧性 Plastic deformation ability before fracture, representing toughness	低碳丝：10%~30%；高碳丝仅 3~6% Low carbon fiber: 10%~30%; High carbon fiber accounts for only 3-6%
反复弯曲性能 Repeated bending performance	表征韧性、镀层附着力 Characterization of toughness and coating adhesion	按规定弯心反复弯曲无裂纹 Repeatedly bend the center according to regulations without cracks
缠绕试验 Winding test	检验丝材脆化、镀层结合力 Inspect wire brittleness and coating adhesion	缠绕后无裂纹、起皮 No cracks or peeling after winding

2.Unique mechanical indicators of finished product network

①Welded wire mesh (welded wire mesh, GB/T33281)

Tensile strength of solder joints: The most critical indicator is that solder joints are weak points and generally require a strength not lower than 50% of the base material.

Wire diameter 4.0mm, welding point tensile force>580N; 3.0mm>520N; 2.0mm＞330N； 1.0mm＞80N.

Mesh tensile strength: Unit width kN/m, determined by wire diameter, mesh size, and solder joint quality; Priority should be given to the detachment of the welding point due to excessive force, rather than the breakage of the steel wire.

②Hooked mesh (diamond woven mesh)

The weaving nodes are twisted together, and the overall flexibility is better than that of welded mesh, which can absorb impact; The mesh has good tear resistance and local cracks are not easily expanded quickly. Common indicators: tensile strength per unit width, mesh strength, and bursting strength.

③Double twisted hexagonal mesh (gabion mesh)

Flexible structure, tensile strength of 350-550MPa, extension ≥ 10%, suitable for slopes and rivers, allowing for large deformation without instantaneous collapse.

Product Description

BLADE BARBED WIRE





Description- Blade Barbed Wire :

Standard: GB/T 15393； EN 10244； ASTM A641； ISO 1461； GOST R 57382-2017、GOST 14918

Grade: Regular model: Q235 steel strip+galvanized steel wire core

High end anti-corrosion: 304, 316; 3 c galvanized steel strip; 08X18H10（304）、03X17H13M2（316L)

Conventional standard size:

Single roll unfolded lengths of 10m, 20m, 30m, 50m; Roll diameter 300mm, 450mm, 600mm, 900mm

Blade thickness: 0.5mm standard, 0.6mm/0.7mm thick high-strength version (border/prison specific)

Surface treatment: Hot dip galvanized integrated steel strip forming, 304/316 stainless steel integrated stamping forming, PVC coating.

International standard blade model:

BTO series (thin plate economy type): BTO-10, BTO-12, BTO-18, BTO-22

CBT series (thickened high-strength type): CBT-60, CBT-65, CBT-70

Layout form and model: Concerto Spiral spiral cross snake belly, Straight Line straight flat, Cage Type cage blade mesh.

Corrosion resistance grade:

Hot Dipped Galvanized steel strip (factory area, inland security); 304/316 Stainless Steel (mandatory for coastal, chemical, and island ports in the Russian Far East).

Application:

High security area: protection at the top of the walls of prisons, detention centers, and drug rehabilitation centers.

Border ports: Customs border, border guard posts, entry and exit inspection stations.

Key factory areas: substations, refineries, military industrial areas, data center perimeter anti-theft.

Transportation hub: airport, high-speed railway station, port container yard fence security.

Military exclusion zone: perimeter of campsite, ammunition depot, and isolation and protection of military facilities.

Packing and loading







Warehouse >>>> Packaging >>>> Loading

Our Advantages









CERTIFICATE

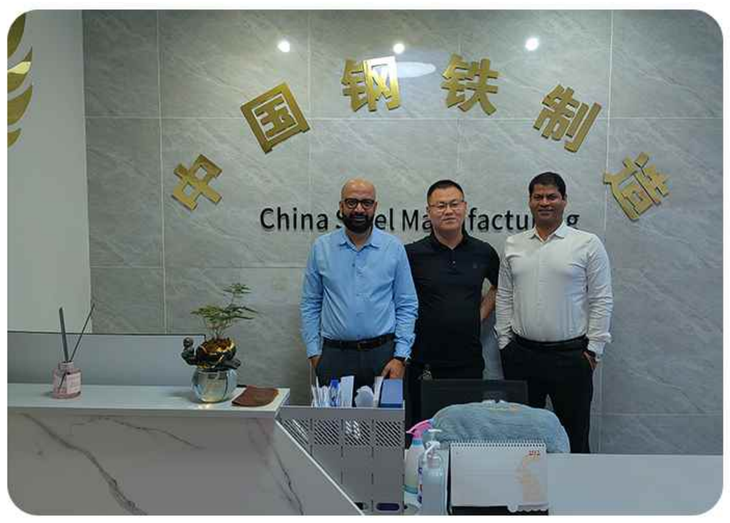






PRODUCTION EQUIPMENT

Our Advantages



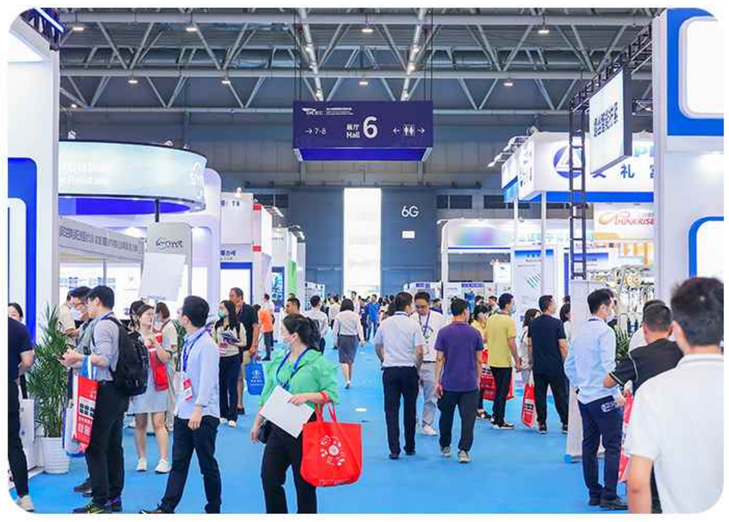




CUSTOMER VISIT







EXHIBITION

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