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Steel Wire

— 钢丝



Steel Wire

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Black Annealed wire



Hard-drawn Wire



Hot-dip Galvanized Wire



Electro Galvanized Wires



Welded wire mesh sheet



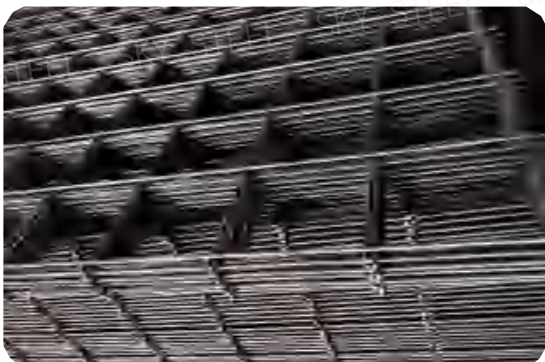
Galvanized welded wire mesh



PVC Coated Welded Wire Mesh



Rebar



Reinforcing mesh

Classification Table of Carbon Steel Types

Category	% C	Key Characteristics	Common Grade Examples	Typical Applications
Low Carbon Steel	0.05% - 0.25%	- Low strength and hardness - Excellent ductility and toughness - Easy to form and weld	AISI 1018, AISI 1008, AISI 1020, ASTM A36	- Automotive body panels - Structural steel (I-beams, sheets) - Pipes, pipe materials - Wires, nails, rivets
Medium Carbon Steel	0.25% - 0.60%	- It has higher strength and hardness than low-carbon steel. - It maintains good toughness. - Its performance can be enhanced through heat treatment.	AISI 1040, AISI 1045, AISI 4140, ASTM A529	- Automotive components - Rails, train wheels - Machine parts, forging pieces - High-strength structural components
High Carbon Steel	0.60% - 1.00%	- Extremely high strength and hardness - Good wear resistance - Low ductility and toughness - Difficult to weld and cold process	AISI 1060, AISI 1075, AISI 1095, C60	- Spring - Cutting tools (drills, taps) - High-strength steel wire - Blades, axes
Ultra-High Carbon Steel	1.00% - 2.00%	- Extremely high hardness and wear resistance - Extremely brittle with poor toughness - Difficult to process.	AISI 1095 , CPM 10V	- Professional cutting tools - Pressing molds - Wear-resistant parts - Special blades



Black Annealed Wire

Soft, with good elasticity and easy to bend. Often used for bundling



Coil Wire



Spool Wire



Straight Cut Wire

Material & Grade	
Material	Low Carbon Steel (Q195, SAE 1006, 1008)
Heat Treatment	Fully Annealed
Surface Condition	1. Black 2. Bright 3. Galvanized
Form	1. Coil Wire 2. Spool Wire 3. Straight & Cut Wire
Coil Weight	5kg, 10kg, 15kg, 20kg, 25kg, Customized

CODE	WIRE DIAMETER MM	CODE	WIRE DIAMETER MM	CODE	WIRE DIAMETER MM
0	8.23	14	2.032	28	0.376
1	7.02	15	1.829	29	0.345
2	7.01	16	1.626	30	0.315
3	6.401	17	1.422	31	0.295
4	5.893	18	1.219	32	0.274
5	5.385	19	1.016	33	0.254
6	4.877	20	0.914	34	0.234
7	4.47	21	0.813	35	0.213
8	4.064	22	0.711	36	0.193
6	3.658	23	0.61	37	0.173
10	3.251	24	0.559	38	0.152
11	2.946	25	0.508	39	0.132
12	2.642	26	0.457	40	0.122
13	2.337	27	0.417	41	0.112

Hard-drawn Wire

Hard, high strength and good elasticity

Material & Grade	
Material	Low Carbon Steel (Q195, 1008) Medium Carbon Steel (Q235, 1045) High Carbon Steel (65Mn, 1070, 1074)
Process	Cold Drawing / Cold Drawn
Tensile Strength	Low Carbon Steel: 400-700 MPa Mild/High Carbon Steel: 1000-1800 MPa
Form	1. Coil Wire 2. Spool Wire 3. Straight & Cut Wire
Coil Weight	5kg, 10kg, 15kg, 20kg, 25kg, Customized
Packaging Details	Coils: Bundled with steel straps, waterproof wrapping. Spools: Individually wrapped in plastic, then in carton boxes.



Bright



Galvanized



Oiled



Spool Wire



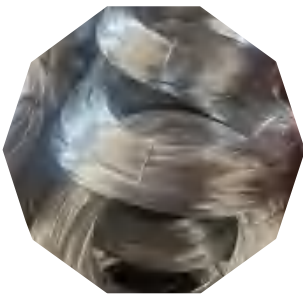
Hot-dip Galvanized Wire

Material & Grade	
Material	Low Carbon Steel (Q195, SAE 1006, 1008)
Wire Diameter	0.7mm - 4.0mm
Process	Hot Dip Galvanized
Zinc Coating Mass	60 - 150 g/m ² Class I (>245 g/m ²) Class II (>165 g/m ²) Class III (>100 g/m ²)
Zinc Coating Thickness	20 - 50 μm
Tensile Strength	350 - 800 MPa Annealing soft state: 350-550 MPa Hard state: 500-800 MPa
Form	1. Coil Wire 2. Spool Wire 3. Straight & Cut Wire
Coil Weight	5kg, 10kg, 15kg, 20kg, 25kg, 或定制

ZINC COATING MEET GB/T15393 STANDARD							
SIZE (mm)	ZINC COATING MIN(g/m)						
	A	AB	B	C	D	E	F
	A1	B2					
≤0.25			30	20	18		
>0.25-0.40				30	25	20	
>0.40-0.50					30	20	
>0.50-0.60					35	20	
>0.60-0.80	120	110			40	20	
>0.80-1.00	150	130			45	25	
>1.00-1.20	180	150			50	25	
>1.20-1.40	200	160			50	25	
>1.40-1.60	220	180			50	35	30
>1.60-1.80	220	180			70	40	30
>1.80-2.20	230	200			80	50	40
>2.20-2.50	240	210			80	55	40
>2.50-3.00	250	230			90	70	45
>3.00-4.00	270	250			100	85	60
>4.00-5.20	290	270	245		110	95	70
>5.20-6.00	290	270	245		110	100	80

Wire Diameter

Wire Gauge	SWG (mm)	BWG (mm)	Metric (mm)
8	4.05	4.19	4
9	3.66	3.76	4
10	3.25	3.4	3.5
11	2.95	3.05	3
12	2.64	2.77	2.8
13	2.34	2.41	2.5
14	2.03	2.11	2.5
15	1.83	1.83	1.8
16	1.63	1.65	1.65
17	1.42	1.47	1.4
18	1.22	1.25	1.2
19	1.02	1.07	1
20	0.91	0.84	0.9
21	0.81	0.81	0.8
22	0.71	0.71	0.7



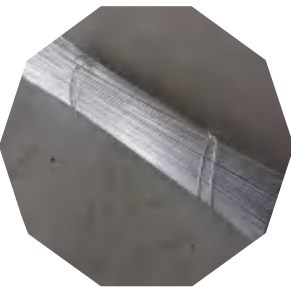
Small Coil



Big Coil



Spool Wire



Straight Cut Wire

Packaging Details:

Coils: Bundled with steel straps, waterproof paper wrapped.
Spools: Individually plastic wrapped, then in carton boxes.

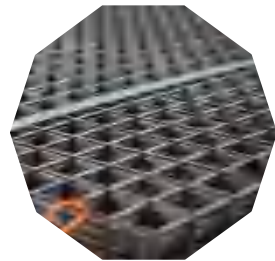


Electro Galvanized Wires

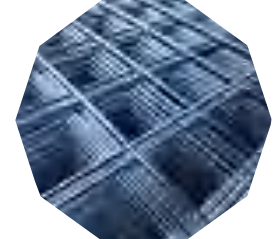
Material & Grade	
Material	Low Carbon Steel (Q195, SAE 1008)
Process	Electro Galvanized Electroplated
Zinc Coating Mass	5 - 25 g/m ² Light Coating: 5-15 g/m ² Regular Coating: 10-20 g/m ²
Zinc Coating Thickness	2 - 5 μm
Surface Characteristics	Bright & Smooth/ Bluish White
Tensile Strength	350 - 1000 MPa • Soft Annealed : 350-550 MPa • Hard Drawn: 700-1000 MPa
Form	1. Coil Wire 2. Spool Wire

ZINC COATING MEET GB/T15393 STANDARD							
SIZE (mm)	ZINC COATING MIN(g/m)						
	A	AB	B	C	D	E	F
	A1	B2					
≤0.25				18	15	12	5
>0.25-				25	20	12	5
>0.40-				25	20	15	8
>0.50-				25	20	15	8
>0.60-				55	20	15	10
>0.80-				60	25	18	10
>1.20-				65	25	18	12
>1.60-			100	70	40	30	20
>1.80-			105	80	50	40	20
>2.20-			110	80	55	40	25
>2.50-			120	90	70	45	25
>3.00-				100	85	60	30
>4.00-				110	95	70	40

Welded wire mesh sheet



Black



Galvanized



PVC

Material & Grade

Steel Grade	Low Carbon Steel Wire (Q195, AISI 1008) Stainless Steel Wire (304, 316)
Wire Diameter	SWG gauge / mm
Welding Process	Automatic Electric Resistance Welding
Surface Treatment	1. Electro-Galvanized 2. Hot-Dip Galvanized 3. PVC Coated 4. Black
Coating Mass	Hot-Dip: 60-90 g/m ² , >120 g/m ²
Weld Shear Strength	ASTM A185/A497
Characteristics	Sturdy Structure, Long Service Life, Easy to Install, Uniform Grids
Applications	Construction Fencing Industrial Agricultural

Welded Wire Mesh Panel

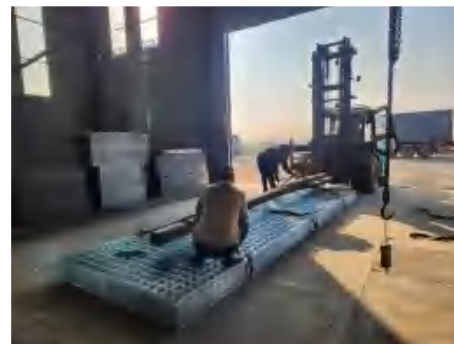
MESH OPENING		WIRE THICKNESS		WIDTH		LENGTH	
INCH	MM	BWG	MM	INCH	CM	INCH	CM
2	50	8	4.19	80	200	160	400
2	50	9	3.76	80	200	160	400
2	50	10	3.40	80	200	160	400
2	50	11	3.05	80	200	160	400
1	25	12	2.77	48	120	120	300
1	25	13	2.41	48	120	120	300
1	25	14	2.11	48	120	120	300

Galvanized Panel

MESH OPENING	WIRE THICKNESS		WIDTH		LENGTH	
INCH	MM	MM	INCH	CM	INCH	CM
2	50	2.0	40	100	80	200
2	50	1.9	40	100	80	200
2	50	1.8	40	100	80	200
2	50	1.7	40	100	80	200
2	50	1.6	40	100	80	200
2	50	1.5	40	100	80	200
2	50	1.4	40	100	80	200

Packaging Details:

Bundled Packing: The net sheets are stacked together and securely tied with steel bands to form a strong package.



Pallets: For large orders, the bundled packages are fixed onto wooden pallets, making it convenient for forklift operations.



Galvanized welded wire mesh

Soft, with good elasticity and easy to bend. Often used for bundling



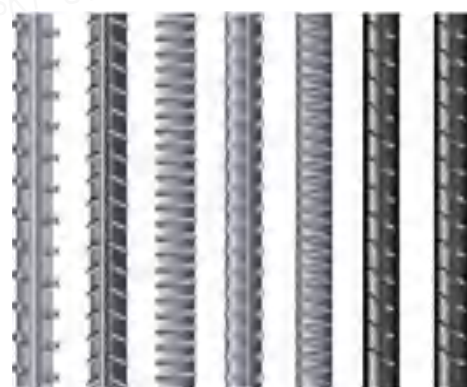
MESH OPENING		WIRE THICKNESS		WIDTH
INCH	MM	BWG	MM	M
1/4 x 1/4	6 x 6	26, 24, 23, 22, 21	0.45-0.81	0.3-1.2
3/8 x 3/8	10 x 13	26, 24, 23, 22, 21, 20, 19	0.45-1.07	0.3-1.2
1/2 x 1/2	13 x 16	25, 24, 23, 22, 21, 20, 19, 18, 17, 16	0.51-1.65	0.3-2.0
5/8 x 5/8	16 x 19	25, 24, 23, 22, 21, 20, 19, 18, 17, 16	0.51-1.65	0.3-1.2
3/4 x 3/4	19 x 25	25, 24, 23, 22, 21, 20, 19, 18, 17, 16	0.51-1.65	0.3-2.0
1/2 x 1	13 x 25	22, 21, 20, 19, 18, 17, 16, 15, 14	0.71-2.11	0.3-2.0
1 x 1	25 x 50	22, 21, 20, 19, 18, 17, 16, 15, 14	0.71-2.11	0.3-2.0
1 x 2	25 x 50	19, 18, 17, 16, 15, 14, 13, 12	1.07-2.77	0.3-2.0
2 x 2	50 x 50	18, 17, 16, 15, 14, 13, 12	1.25-2.77	0.3-2.0
2 x 4	50 x 100	16, 15, 14, 13, 12	1.65-2.77	0.3-2.0

PVC Coated Welded Wire Mesh



MESH OPEN		WIRE THICKNESS		WIDTH
INCH	MM	MM	INCH	M
1/4 x 1/4	6 x 6	0.35/0.7-0.5/0.9	12-48	0.3-1.2
3/8 x 3/8	10 x 13	0.35/0.7-0.8/1.2	12-48	0.3-1.2
1/2 x 1/2	13 x 16	0.4/0.8-1.2/1.6	12-80	0.3-2.0
5/8 x 5/8	16 x 19	0.4/0.8-1.2/1.6	12-48	0.3-1.2
3/4 x 3/4	19 x 25	0.4/0.8-1.2/1.6	12-80	0.3-2.0
1/2 x 1	13 x 25	0.4/0.8-1.2/1.6	12-80	0.3-2.0
1 x 1	25 x 50	0.5/0.9-1.6/2.0	12-80	0.3-2.0
1 x 2	25 x 50	0.6/1.0-2.2/2.6	12-80	0.3-2.0
2 x 2	50 x 50	0.6/1.0-2.2/2.6	12-80	0.3-2.0
2 x 3	50 x 75	1.6/2.0-2.2/2.6	12-80	0.3-2.0
2 x 4	50 x 100	1.6/2.0-2.2/2.6	12-80	0.3-2.0
3 x 3	75 x 75	1.6/2.0-2.2/2.6	12-80	0.3-2.0
3 x 4	75 x 100	1.6/2.0-2.2/2.6	12-80	0.3-2.0
4 x 4	100 x 100	1.6/2.0-2.2/2.6	12-	0.3-2.0

Rebar



Material & Grade

Type	Deformed Bar / Plain Round Bar
Grade	HRB400, HRB400E, HRB500, HRB500E A615 Gr.60, Gr.75 / A706 Gr.60 B500A, B500B, B500C
Standard	GB/T 1499.2 ASTM A615, ASTM A706 BS EN 10080
Length	6m, 9m, 12m (Standard), Customized Lengths Available
Process	Hot Rolled
Surface	Ribs and Longitudinal Ribs
Applications	Construction Fencing Industria Agricultural

	HRB400	HRB500	ASTM A615 Gr. 60
Yield Strength	≥400 MPa	≥500 MPa	≥420 MPa
Tensile Strength	≥540 MPa	≥630 MPa	≥620 MPa
Elongation	≥16%	≥15%	≥9%
Agt	≥7.5%		

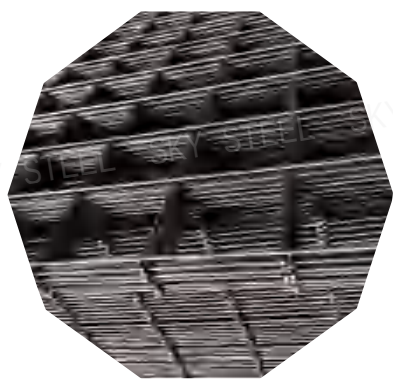
Nominal Diameter	U.S. Bar Size	Cross-Sectional Area (mm²)	Theoretical Weight (kg/m)
6 mm	#2	28.3	0.222
8 mm	#2.5	50.3	0.395
10 mm	#3	78.5	0.617
12 mm	#4	113.1	0.888
14 mm	#5	153.9	1.208
16 mm	#5	201.1	1.578
18 mm	#6	254.5	1.998
20 mm	#6	314.2	2.466
22 mm	#7	380.1	2.984
25 mm	#8	490.9	3.854
28 mm	#9	615.8	4.834
32 mm	#10	804.2	6.313
36 mm	#11	1017.9	7.99
40 mm	#12	1256.6	9.865



Reinforcing mesh

Material & Grade

Type	Standard Reinforcing Mesh Customized Rebar Mat
Steel Grade	CRB550, HRB400, HRB500 A185, A497 B500A, B500B, B500C
Standard	GB/T 1499.3 ASTM A185, ASTM A497 BS 4483
Welding Process	Fully Automatic Resistance Welding
Weld Shear Strength	GB/T 1499.3、ASTM A497
Surface	1. As Welded 2. Galvanized
Applications	Concrete slab, Concrete wall, Prefabricated component Tunnel, airport, port



As Welded



Galvanized

Model	Mesh Spacing (mm)	Wire Diameter (mm)	Sheet Size (m)	Theoretical Weight (kg/m²)
A Model	200 x 200	6	2.0 x 6.0	2.22
B Model	100 x 100	6	2.0 x 6.0	4.44
C Model	150 x 150	7	2.0 x 6.0	4.33
D Model	100 x 100	8	2.0 x 6.0	7.9
E Model	100 x 100	10	2.4 x 6.0+	12.34
F Model	150 x 150	10	2.4 x 6.0+	8.25
Rectangular	100 x 200	8.0x 6.0	2.0 x 6.0	4.95

Packaging Details:

Bundled Packing:
The net sheets are stacked together and securely tied with steel bands to form a strong package.



Pallets: For large orders, the bundled packages are fixed onto wooden pallets, making it convenient for forklift operations.

