

DURMAZ
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DUWELD

Non-Stop Welding

www.durmazcelik.com

DURMAZ ÇELİK

As Durmaz Çelik and Import Iron Industry Trade Ltd Co., it has been one of the leading foreign companies of our country with its import and export activities in all iron and steel products, especially in box profile, sheet metal, coiled sheet, galvanized sheet, angle iron, galvanized wire and some other sectors since 1998, has taken its place among trading companies. In addition to its foreign trade activities in 2017, our company has decided to invest in the manufacturing industry under the name of Durmaz Steel Industry and Trade Inc.

In this direction, it has completed the machinery, factory construction and infrastructure works related to the production of galvanized wire, black wire, construction wire, panel fence, etc. It started production at full capacity. Our company has finally started to produce GAS Welding Wire for Non-Alloy Metals in its new facility under the name **DUWELD** in 2021.

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Durmaz Çelik has a **HOT DIPPED GALVANIZED** production line. Which can make manufacturing in international standarts upon customer demands, equipped with high technology automatic control systems.

Our galvanized wire manufacturing is based on the principle of zinc coating of cold drawn wires manufactured in wire drawing machines by immersing them in a molten zinc pool.

Upon our customers use of areas and choices, commercial and high coating manufacturing is carried out. Corrosion resistance differs depending on the place where the wire is used and the amount of coating. as the amount of coating increases, the service life extends. With high-performance production equipment and quality control center. Our company provides products of high corrosion resistance and international standarts with a incandescent surface, controlled coating and a perfectly balanced zinc-iron alloy.

RAW MATERIALS

Wire Rod		Bullion Zinc
SAE 1006	SEA 1018	Zinc %99,995 - EN 1179 Z1
SAE 1008	SEA 1045	
SAE 1010		

STRENGTH CATEGORIES

	Wire Diameter	Strength	Zinc Coating
Soft	1.0 mm - 8.0 mm	350 MPa - 500 MPa	Commercial / High
Hard	1.0 mm - 8.0 mm	500 MPa - 850 MPa	Commercial / High
High Strength	1.0 mm - 8.0 mm	850 MPa - 1600 MPa	Commercial / High

ZINC COATING CLASSES / EN 10244 - 2

Diameter	Class A	Class AB	Class B	Class C	Class D
	g/mm ²	g/mm ²	g/mm ²	g/mm ²	g/mm ²
0,90 - 1,00 mm	155	110	70	55	25
1,00 - 1,20 mm	165	115	80	60	25
1,20 - 1,40 mm	180	125	90	65	25
1,40 - 1,65 mm	195	135	100	70	30
1,65 - 1,85 mm	205	145	100	75	30
1,85 - 2,15 mm	215	155	115	80	40
2,15 - 2,50 mm	230	170	125	85	45
2,50 - 2,80 mm	245	185	125	95	45
2,80 - 3,20 mm	255	195	135	100	50
3,20 - 3,80 mm	265	210	135	105	60
3,80 - 4,40 mm	275	220	135	110	60
4,40 - 5,20 mm	280	220	150	110	70
5,20 - 8,20 mm	290			110	80



GALVANIZED WIRE



Galvanized Wire

PACKAGING

	Mini Package	Standard Package	Maxi Package
Wire Diameter	1,00 - 2,00 mm	2,00 - 4,50 mm	4,50 - 8,0 mm
D	550 - 560 mm	750 - 850 mm	1000 - 1100 mm
d	300 - 350 mm	420 - 500 mm	530 - 550 mm
h	500 - 550 mm	700 - 800 mm	1000 - 1100 mm
Weight	350 - 500 kg	500 - 800 kg	800 - 1200 kg
L (opening direction)	Counterclockwire / clockwire	Counterclockwire / clockwire	Counterclockwire / clockwire

Steel ring and shrink used as standard in all packages.

Any change may be conducted in packaging depending on customer request.



MIG / MAG WELDING WIRE FOR NON-ALLOY STEELS

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SG 2

Netweight	Standards	Standards	Lot No
15 kg.	EN ISO 14341 A	G42 4 3 C1 G 3S1	21c21331237/161
	EN ISO 14341 A	G42 4 M21 G 3S1	
	TS EN ISO 14341 A	G42 4 M21 G 3S1	
	TS EN ISO 14341 A	G42 3 C1 G 3S1	

MECHANICAL PROPERTIES

Yield Strenght	440 N/mm ²
Tensile Strenght	540 N/mm ²
Prolongation	30 %
Notch Strenght	60 J (-30 °C)

CHEMICAL ANALYSIS

C	Si	Mn
0.08	10.85	1.50
0.06*	0.55*	1.10*

(*) Chemical composition of weld metal (CO2 gas)

PACKAGING AND DIAMETER INFORMATION

Diameter 0.80	1.00	1.20	1.60	Pulley Weight	Pulley Type
X	X	X	-	15 Kg	BS300



SG 3

Netweight	Standards	Standards	Lot No
15 kg.	EN ISO 14341 A	G42 4 3 C1 G 3S1	
	EN ISO 14341 A	G42 4 M21 G 3S1	
	TS EN ISO 14341 A	G42 4 M21 G 3S1	
	TS EN ISO 14341 A	G42 3 C1 G 3S1	

MECHANICAL PROPERTIES

Yield Strenght	440 N/mm ²
Tensile Strenght	540 N/mm ²
Prolongation	30 %
Notch Strenght	60 J (-30 °C)

CHEMICAL ANALYSIS

C	Si	Mn
0.08	10.85	1.50
0.06*	0.55*	1.10*

(*) Chemical composition of weld metal (CO2 gas)

PACKAGING AND DIAMETER INFORMATION

Diameter 0.80	1.00	1.20	1.60	Pulley Weight	Pulley Type
X	X	X	-	15 Kg	BS300



COPPER COATED WIRE



Cooper Coated Wire

Material	Low-carbon steel wires chemically copper coated
Product Standarts	TS EN 10244-6
Raw Material Standarts	TS 2348 EN 10016 (SAE 1006, SAE 1008, SAE 1010, SAE 1018, SG 1 SG 2)
Quality	According to DIN EN 10016, 10216, 10217
Wire Diameter ϕ	1,50 mm to 8.00 mm
Coil Weight	20 kg to 300 kg
Tensile Strenght N/mm2	As per client's requirements
Applicaitons	Staple wires, paper pins and clips, binding wires, packing and printing industries (stitching wires)...etc
Coating Weight gr/m2	TS EN 10244-6
Packaging	In coils or with cardboard core
Other Applications	Production of paint hangers and various types of powder coat paint hooks production of bent and welwed wire elements for furniture, store building and household equipment production of window blinds details production of wire baskets for welding wires

PVC COATED WIRE



Pvc Coated Wire

Material	Low-carbon PVC coated wire
Coating	Hot-dip galvanized
Wire Diameter	2,50 mm - 4,50 mm
Coating Thickness	40 - 350 g/m ²
Tensile Strength	350 - 520 N/mm ²
Coil Weight	100 - 800 kg
Packaging	Rosette coil
Areas of Use	Production of fences

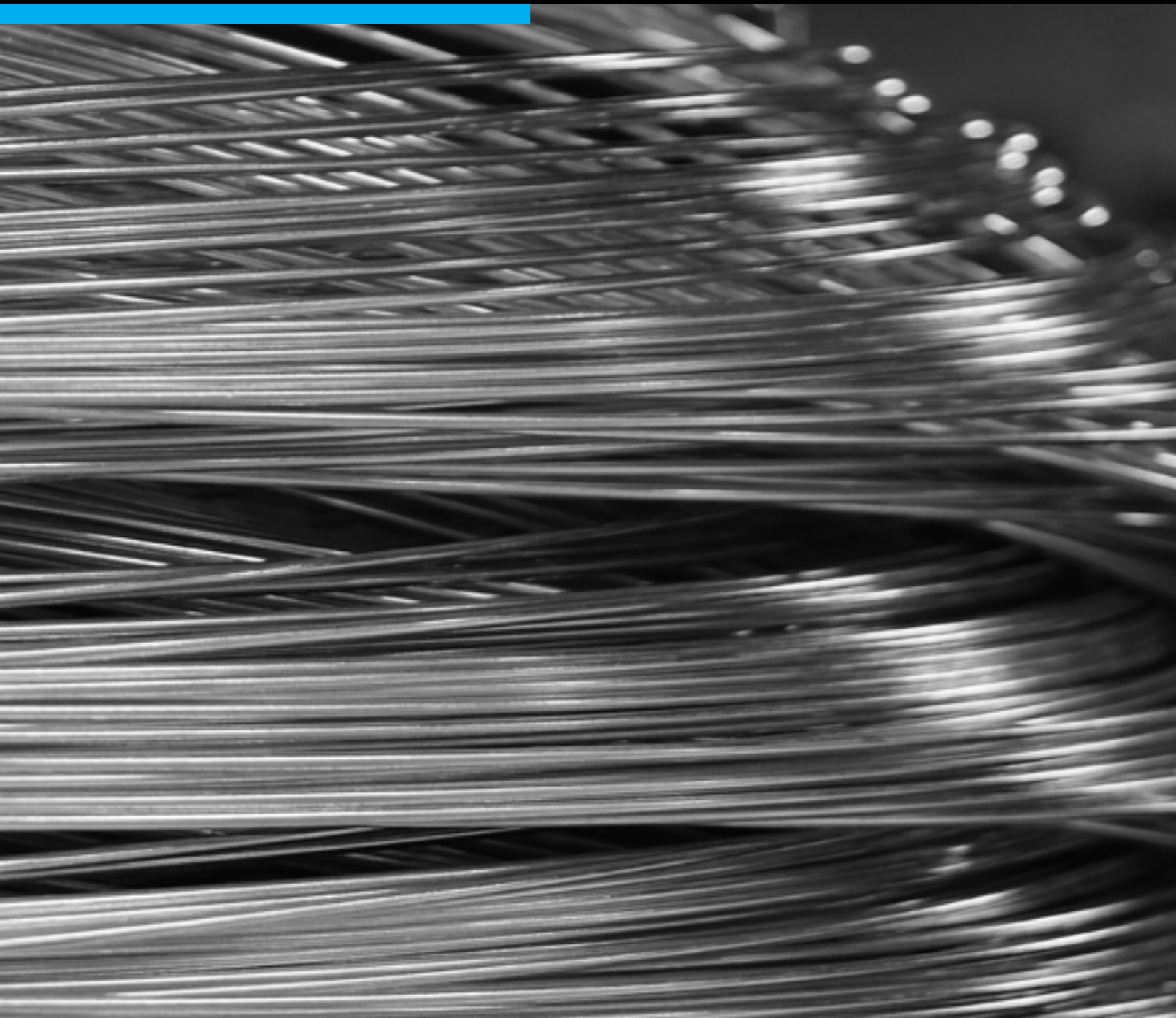
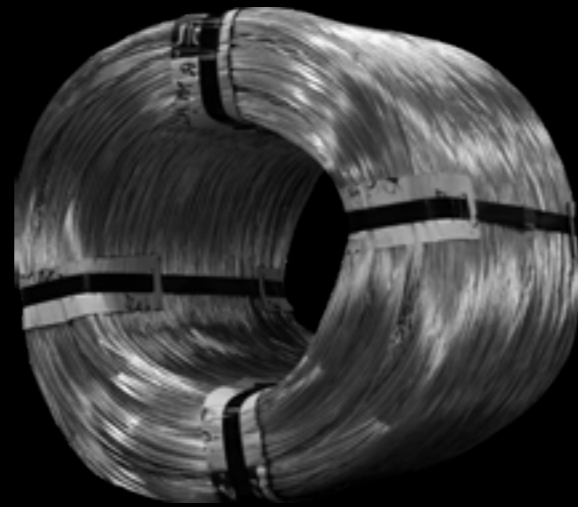
HARD DRAWN STEEL WIRE



Hard Drawn Steel Wire

Material	High / Low-carbon steel wire
Coating	N / A
Wire Diameter	1.00 mm - 8.00 mm
Coating Thickness	N / A
Tensile Strength	500 - 1900 N/mm ²
Coil Weight	750 - 2000 kg
Packaging	Rosette coils, Small coils
Areas of Use	Production of nails, staples and meshes

CABLE ARMOURING WIRE



Cable Armouring Wire

Material	Low-carbon steel wire
Coating	Hot-dip galvanized (Zn)
Wire Diameter	0,90 - 8,00 mm
Coating Thickness	EN 10244-2 Class-A
Tensile Strength	350 - 500 N/mm ² , 650 - 850 N/mm ² , 850 - 1050 N/mm ² , Grade 34 - 65 - 85
Coil Weight	100 - 1200 kg
Packaging	Rosette coil, metal-profile basket, D=630 mm and D=800 mm)
Areas of Use	Power cable, Subsea cables, Umbilicals
Standards	TS EN 10244-6
Packaging	BS 5467 / EN10257-2 / 10244-2

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