



# ALBAYRAK

DEMİR ÇELİK



**albeson**<sup>®</sup>

GALVANİZLİ TEL

G0000000024422

Çap / Diameter (mm)

Kaplama /  
Coating (gr/m<sup>2</sup>)

2,80

50

Mukavemet / Tensile  
Strenght (mPa)

Ağırlık / Coil  
Weight (KG)

**HOT-DIPPED GALVANIZED STEEL WIRE**

**albeson**<sup>®</sup>





#### MAKE

The hot-dip galvanizing process, coating the surface of steel wire products with zinc, protects the galvanized wire against corrosion.

01



#### USE

Galvanized wires have a wide range of uses due to their many features such as brightness, flexibility and durability.

02



#### REUSE

Galvanized wire can be reused over many life cycles due to its durability and detachability. The galvanized coating properties remain on the steel throughout the next life cycle.

03



#### REMAKE

Galvanized steel wire products can be re-galvanized and re-used when their service life is over without the need for new steel production.

04



#### RECYCLE

When the long life of galvanized wire comes to an end, it is possible to recycle it without any loss in the properties of the wire and zinc.

05



## FEATURES OF GALVANIZED WIRE

- ✓ Resistance To Rust & Corrosion
- ✓ Ease Of Installation
- ✓ Easier To Maneuver and Handle
- ✓ Low Maintenance Costs
- ✓ Long Lifespan
- ✓ Affordability
- ✓ Strong and Durable

## HOW GALVANIZING PROTECTS STEEL WIRE?

The hot-dip galvanizing process, coating the surface of steel wire products with zinc, provides protection against corrosion. In this way, after the corrosive environment comes into contact with steel, zinc corrodes before steel.

The coating weight required by the EN 10244-2 standard or requested by the customer constitutes the basic criterion of quality in the galvanizing process. A galvanized coating is formed from 4 microstructures named Eta, Zeta, Delta, Gamma. The amounts and formation methods of these structures provide information on issues such as the corrosion life of the galvanized coating and the adhesive of the metallic bond between the steel material.

In the galvanized wire production process, steel wire rods are drawn to the desired diameters in wire drawing machines to prepare semi-finished black wire. Steel wires without any coating are continuously used in the galvanized wire production line. In the galvanized wire production line, annealing, cleaning, surface preparation with salt bath, zinc coating and waxing processes are applied respectively.

The amount of zinc coating on the steel wire significantly affects the corrosion life of the steel. In addition to the coating amounts included in the EN 10244-2 standard, non-standard coating amounts requested during the order are evaluated in our company.



# HOT-DIPPED GALVANIZED STEEL WIRE

As Albayrak Demir Çelik, we attach great importance to our galvanized wire production processes. We work to obtain high quality products using the latest technologies in our production facilities. Our processes are designed and inspected in accordance with international standards. We use the hot dipping method in our galvanized wire production. This method provides superior corrosion resistance by coating the wires with liquid zinc. Additionally, we carry out strict quality controls during the production stages and ensure that each product is flawless.

## Usage Areas Of Galvanized Wire

Galvanized wires have a wide range of uses. Thanks to its corrosion resistance and durability, it is preferred in many sectors. Here are some uses of galvanized wires:

**High Security:** Galvanized wires are used extensively in the production of panel fences, wire mesh, barbed wire and razor wire to ensure environmental security.

**Agriculture and Livestock:** Galvanized wires used in farm and barn fences, animal shelters and agricultural areas offer a long-lasting and reliable solution.

**Industrial Applications:** Galvanized wires are used in machinery and equipment manufacturing, transportation systems, elevator and crane cables. It is also preferred in security barriers and protection systems.

**Decorative Purposes:** Galvanized wires provide an aesthetic appearance in garden and landscaping arrangements, decorative fences, tunnels and pergolas.

**Armor Wire:** In order to protect the cables from rodents, they are covered with armor wire made of galvanized wire to ensure their long life.



## Hot-Dipped Galvanized Steel Wire Technical Specifications

Raw Material	Low Carbon Steel Wire Rod
Coating	Hot-Dip Galvanized (ZN)
Coating Thickness	50-360 gr/m <sup>2</sup>
Wire Diameter	0,80-8,00mm
Tensile Strength	350-500 N/mm <sup>2</sup> , 500-700 N/mm <sup>2</sup> , 700-900 N/mm <sup>2</sup>
Coil Weight	250-1500Kg
Coil Inner Diameter	45-50-55 cm
Coil Outer Diameter	75-90-105 cm
Packing	Rozet Coil



Sitemize Ulaşabilirsiniz!



**albeson®**

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# ENVIRONMENTALLY FRIENDLY PRODUCTION

**Our Factory** (Samsun / TURKEY)  
**55.400 m<sup>2</sup>**

**Total Production Capacity**  
**329.400 Tons/Year**

