

United in Wire

Alloy Development & Independence

Highest Quality & Individual Service



Development Partner & Maximum Safety of Supply

From the primary materials to the finished wire, we deliver everything from a single source. Our Spanish joint venture Esal Rod Alloys, S. A., which produces **wire rod**, not only allows us to **directly influence the production** and therefore the **quality of our primary material**, but also puts us in the unique position of being able to address customer requests independently and individually.

This results in maximum quality, capacity for action and safety of supply, which are particular advantages for our customers.

ELISENTAL

Customer focus

- with manufacturing and services that target the requirements of our customers and their markets
- maximum safety of supply thanks to our own primary materials source
- continuous process optimisations for best results
- personal contacts for trusting cooperation and short coordination processes

With a comprehensive product range

Aluminium wire up to max. 30 mm:

- round, flat and profiled wire
- for mechanical processing: large coils, compact coils, coils on stands, production coils
- as special wire: plastic spools, metal spools, compact coils

Aluminium bars:

- for mechanical processing: in boxes or bundles up to 3 m length and 12 mm diameter

Aluminium welding wire:

- on mandrel-mounted, basket, basket ring or large spools, in drum or as bars with up to 1 m length

And a robust foundation for the future

- wire drawing plant since 1919
- 130 employees
- continuous development of the employees
- advancement options for junior staff
- comprehensive benefits package
- close, family-type work atmosphere
- strong values in an owner-managed family company

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ELISENTAL

United in Wire

Aluminium wire

The easy connection

- Cold heading wire
- Fastening technology
- Bending and forming technology
- Wire for the packaging industry
- And much more



Excellent suppleness and robustness – for unlimited options and ideas of the future

Aluminium wire from Elisental is available in all common alloys in a range of diameters from 0.50 up to max. 30.00 mm. As diverse as the requirements of our customers worldwide are, so are our individual solutions to address these, with specially developed alloys and forms of supply tailored to the customer's needs.

In addition to manufacturing classic round wire, we have also made a name for ourselves with the production of special wire, such as tea bag wire or flat and profiled wire. Our consistently high quality is confirmed regularly by independent bodies and is demanded by customers, e.g. in the automotive and aircraft industry, subject to stringent monitoring.

Thanks to the varied application options of our aluminium wire, we are a reliable and competent development partner and supplier for a number of industries, and in particular for emerging industries such as electromobility and wind power – even in difficult times.



Aluminium wire

Series 1000 – Pure-Al

1050A (Al99,5), 1070A (Al99,7), 1080A (Al99,8), 1090 (Al99,90), 1098* (Al99,98), 1100 (Al99,0Cu), 1199* (Al99,99), 1350A (Al99,5), 1370 (Al99,7)

Series 2000 – Al-Cu

2011 (AlCu6BiPb), 2014 (AlCu4SiMg), 2017A (AlCu4MgSi), 2024 (AlCu4Mg1), 2033 (AlCu2,5MnSiMgBi), 2117 (AlCu2,5Mg)

Series 3000 – Al-Mn

3103 (AlMn1)

Series 4000 – Al-Si

4043A (AlSi5), 4046 (AlSi10Mg), 4047A (AlSi12)

Series 5000 – Al-Mg

5005A (AlMg1), 5019 (AlMg5), 5050 (AlMg1,5), 5051A* (AlMg2), 5052 (AlMg2,5), 5056 (AlMg5), 5087 (AlMg4,5MnZr), 5154A (AlMg3,5), 5183 (AlMg4,5Mn0,7), 5186 (AlMg4Mn0,4), 5249* (AlMg2Mn0,8Zr), 5554A (AlMg2,7Mn), 5556A (AlMg5Mn), 5754 (AlMg3)



Range of diameters: 0.50 - max. 30.00 mm

Series 6000 – Al-Mg-Si

6026 (AlMgSiBi), 6056 (AlSi1MgCuMn), 6060 (AlMgSi), 6061 (AlMg1SiCu), 6082 (AlSi1MgMn), 6101 (AlMgSi)

Series 7000 – Al-Zn-Mg

7050 (AlZn6CuMgZr), AA 7068* (AlZn7,5Mg2,5Cu2), 7075 (AlZn5,5MgCu), 7108A (AlZn5Mg1Zr)

Series 8000 – Al-Fe

AA 8076A (AlFe0,6Mg0,2)

* On request

¹ Unless otherwise specified

Notes:

- chemical composition of alloys according to DIN EN 573-3
- mechanical properties of alloys according to DIN EN 1301-2
- technical terms of delivery according to DIN EN 1301-1

Our range includes mechanical wire and special wire.

Mechanical wire (Ø > 2mm)



Large Coils
250-2000 kg



Compact coils
up to 250 kg



Tubular formers
up to 250 kg



Production coils
up to 100 kg

Special wire (Ø < 2mm)

Packaging wire and profiled wire are also part of our range of products and can be supplied in a wide variety of different designs and versions.



Plastic spools



Compact coils



Plastic spools



Metal spools

More information about the exact composition is available on our website www.elisental.de.

Or simply scan the QR code!



Certification according to:
ISO 9001, IATF 16949, ISO 22000, ISO 14001