

ALUMINIUM WIRE FOR UNLIMITED
POSSIBILITIES IN HIGHEST QUALITY.

INDIVIDUAL, LIGHTWEIGHT, STABLE.

Our aluminium wire and bars impress with their high electrical and thermal conductivity, an unbeatable low weight, good formability, excellent corrosion resistance and a long lifetime – even under rough operating conditions. Thanks to decades of experience and state-of-the-art manufacturing technologies, we can supply you with the best possible standard alloy solutions and solutions developed specifically for your needs.

A particular advantage is our joint venture with Esal Rod Alloys, S.A. for the production of wire rod, our raw material. This strategic partnership gives us direct access to influence production and thus the quality of the materials.

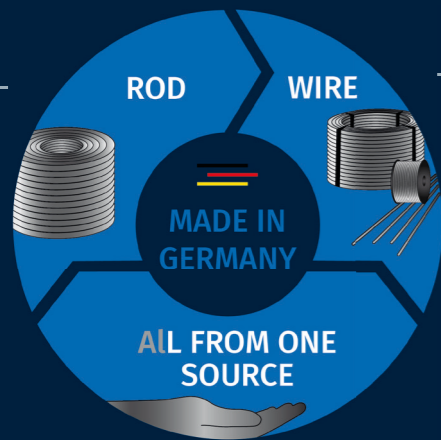
Having our own source of raw materials allows us maximum flexibility and individuality.

FROM RAW MATERIALS TO FINISHED WIRE –
EVERYTHING FROM A SINGLE SOURCE.

ALL FROM ONE SOURCE.

ALLOY DEVELOPMENT &
INDEPENDENCE

HIGHEST QUALITY &
INDIVIDUAL SERVICE



DEVELOPMENT PARTNER &
MAXIMUM SAFETY OF SUPPLY

**DRAHTWERK
ELISENTAL.**

UNITED IN WIRE

ELISENTAL

UNITED IN WIRE

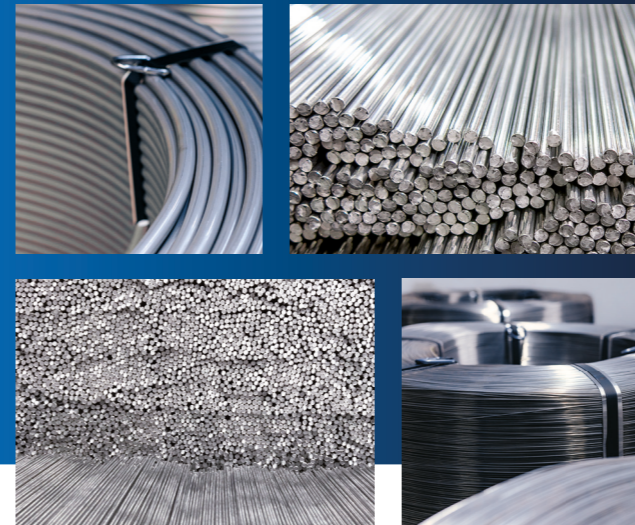
ISO 9001
ISO 14001
ISO 50001

**YOUR SPECIALIST FOR ALUMINIUM.
BECAUSE IT'S MORE THAN WIRE.**

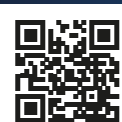


**ALUMINIUM WIRE.
IN PERFECT SHAPE.**

Round, flat and profile wire,
round and profiled bars –
tailored to your requirements.



SINCE 1919.



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**AT HOME IN YOUR INDUSTRY.
STRONGER TOGETHER. SMARTER FOREVER.**

When it comes to high-performance solutions, every detail counts. With our aluminium wire and bars, we offer you customised, high-quality products that are precisely tailored to your challenges. Whether for the demanding automotive industry, the metalworking industry or the increasingly important security and defence industry – we supply cold heading wire for fastening, bending and forming technology, the packaging industry and numerous other manufacturing sectors. Our bars are used, for example, in the manufacture of precision turned parts and in machining.

What if your requirements deviate from the standard? We also develop individual wire solutions that are precisely tailored to your needs. With ELISENTAL.concept, we accompany you from the initial contact to deep into your production process.
Sound advice, smart processes, strong results.



// E.discover – Strong together. // E.rethink – Future needs Aluminium. // E.sync – Together at eye level. // E.create – Innovation is teamwork. // E.perform – More than just a supplier. // E.optimise – Thinking quality further. // E.skill – Multiplying expertise.

Curious?
Then find out more about
ELISENTAL.concept here:



ALUMINIUM WIRE AND BARS

ALLOYS

SERIES 1000 – PURE-AL

1050A (Al99,5), 1070A (Al99,7), 1080A (Al99,8(A)), 1090 (Al99,90), 1098* (Al99,98), 1100 (Al99,0Cu), 1199* (Al99,99), 1350A (Al99,5(A)), 1370 (Al99,7), 1450 (Al99,5Ti)

SERIES 2000 – Al-Cu

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

SERIES 3000 – Al-Mn

3003 (AlMn1Cu), 3103 (AlMn1), 3103A (AlMn1(A))

SERIES 5000 – Al-Mg

5005A (AlMg1(C)), 5019 (AlMg5), 5050 (AlMg1,5(C)), 5051A* (AlMg2(B)), 5052 (AlMg2,5), 5056 (AlMg5), 5154A (AlMg3,5(A)), 5183 (AlMg4,5Mn0,7(A)), 5186 (AlMg4Mn0,4), 5251 (AlMg2Mn0,3), 5554 (AlMg3Mn(A)), 5556A (AlMg5Mn), 5754 (AlMg3)

SERIES 6000 – Al-Mg-Si

6056 (AlSi1MgCuMn), 6060 (AlMgSi), 6061A (AlMg1SiCu(A)), 6063 (AlMg0,7Si), 6063A (AlMg0,7Si(A)), 6082 (AlSi1MgMn), 6101 (AlMgSi), 6201 (AlMg0,7Si)

SERIES 7000 – Al-Zn-Mg

7050 (AlZn6CuMgZr), 7075 (AlZn5,5MgCu)

SERIES 8000 – Al-Fe

8176 (AlFeSi)

* on request

NOTES:

- chemical composition of alloys according to DIN EN 573-3
- mechanical properties of our wire according to DIN EN 1301-2
- mechanical properties of our bars according to DIN EN 754-2

DIMENSIONS

ROUND WIRE: 0.80–30.00 mm

PROFILE WIRE: on request

ROUND BARS:

- > Length: up to 4,000 mm
- > Diameter: 3.00 to max. 22.00 mm
- > Chamfered on one or both sides on request

PROFILED BARS:

- > Shape according to your requirements
- > with a maximum cross-sectional area of 300 mm² and depending on the cross section, up to a maximum height-to-side ratio of 1:2

TEMPERS

HEAT TREATABLE ALLOYS: Series 2000, 6000, 7000

NON HEAT TREATABLE ALLOYS: Series 1000, 3000, 5000, 8000

O (soft annealed)
H (work hardened)
T (solution heat treated)

FORMS OF SUPPLY

WIRE



Large coils from 250 to 2,000 kg



Compact coils



Compact coils up to 250 kg



Tubular formers up to 250 kg



Production coils up to 100 kg

Plastic or metal spools up to 200 kg available on request

BARS



in wooden boxes up to 250 kg, 500 kg or 1,000 kg



in bundles

// OTHER VARIANTS AVAILABLE ON REQUEST



Certifications according to:
ISO 9001, ISO 50001, ISO 14001

Further information about the exact composition can be found on our website www.elisental.de.

