

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:

- 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 welding wire

The highest quality

- MIG welding
- TIG welding
- Brazing
- Metal spraying
- Laser welding
- WAAM

Wire Arc Additive
Manufacturing

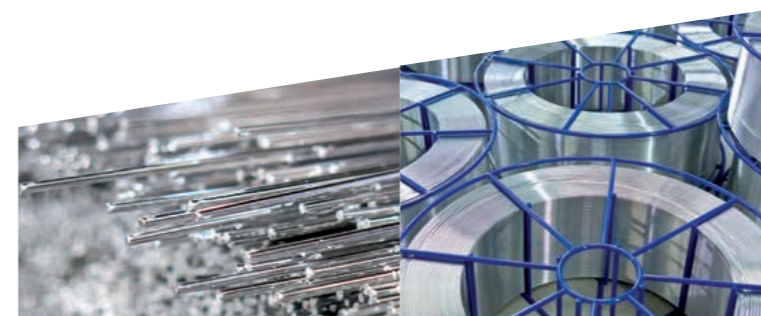
- And much more



Lightweight, strength and stability – for unlimited options and ideas of the future

Aluminium welding wire from Elisental is used in a number of industries. It stands out in particular on account of its high quality and shows its advantage over other materials when it comes to **lightness, strength and robustness**. Our high standards for consistent quality are reflected in the compliance with very strict specifications, which has been confirmed to us by DB, TÜV and various shipping companies.

Customers across the globe and from a variety of different industries, e.g. automotive, railway, shipping or construction, place their trust in this quality from Elisental. And we are also a **reliable development partner** and supplier for customers from the emerging electromobility and wind power markets – even in difficult times.



Our product range includes both welding wire and welding rods, according to DIN EN ISO 18273.

Brand name	Numeric designation	Chemical designation	Approvals
DE50	S Al 1098 *	Al99,98	TÜV
DE51	S Al 1080 A *	Al99,8(A)	TÜV, DB
DE53	S Al 1450 *	Al99,5 Ti	TÜV, DB
DE71	S Al 2319 *	AlCu6MnZrTi	-
DE54	S Al 3103	AlMn1	-
DE68	S Al 4018	AlSi7Mg	TÜV, DB
DE33	S Al 4020	AlSi3Mn1	TÜV, DB
DE59	S Al 4043 A	AlSi5(A)	TÜV, DB
DE61	S Al 4046	AlSi10Mg	-
DE60	S Al 4047 A	AlSi12(A)	TÜV, DB
DE57	S Al 5249 *	AlMg2Mn0,8Zr	TÜV, DB
DE65	S Al 5554	AlMg2,7Mn	TÜV, DB
DE56	S Al 5754	AlMg3	TÜV, DB
DE58	S Al 5356	AlMg5Cr(A)	ABS, BV, DNV, LR, TÜV, DB
DE70	S Al 5556 A	AlMg5Mn1(A)	-
DE63	S Al 5183	AlMg4,5Mn0,7(A)	ABS, BV, DNV, LR, TÜV, DB, BWB
DE64	S Al 5087	AlMg4,5MnZr(A)	ABS, BV, DNV, LR, TÜV, DB, BWB
Hartlot	S Al 112 DIN EN ISO 17672	B-Al88Si-575/585 (DIN EN ISO 3677)	-

* Material on request

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

Or simply scan the QR code!



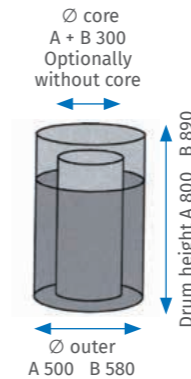
Drums

Drum type, round Dimensions (mm)

Type A + B
Drum with metal handle or as all-paper drum with inset handles



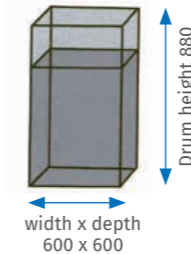
Net weight max. 140 kg depending on drum type and material



Drum type, square Dimensions (mm)



Net weight max. 140 kg



Other drum types on request. You can find our accessories (pay-offs) on our website www.elisental.de.

TIG Rods


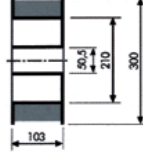

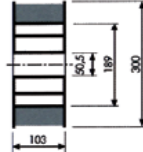

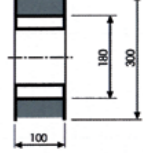

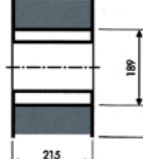

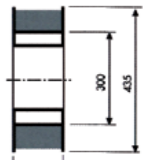

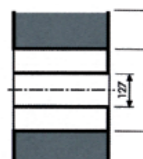


TIG rods in a carton

Standard: 1.000 mm length, 10 kg
Also available: 5 + 2,5 kg

Other lengths and weights on request.

Spool type Dimensions (mm) Net weight (kg)

	Mandrel-mounted reel S 300 DIN EN ISO 544		max. 6,0
	Basket spool BS 300 DIN EN ISO 544		max. 7,0
	Basket ring spool B 300 DIN EN ISO 544		max. 7,0
	Basket ring spool B 400 DIN EN ISO 544		max. 40,0
	Basket ring spool B 435 DIN EN ISO 544		max. 14,0
	Large spool K 500 not standardised		max. 40,0

Standard delivery dimensions

Forms of supply	Ø (mm)	Tolerances (mm) DIN EN ISO 544
Spools	1,00 1,20 1,60	+0,01 -0,04
Drums	1,20 1,60	+0,01 -0,04
Rods	1,60 2,00 2,40 3,20	± 0,1

All details are given in nominal dimensions. Alternative spool types and other packaging dimensions upon request.