

**ELISENTAL**

## *Aluminium Wire*



Made in  
Germany

**Ideas are impulses for unlimited possibilities.**

For many years, Elisental, one of the leading European manufacturers of aluminium wire, has specialised in the material aluminium.

On the basis of a spectrum of 68 extremely soft to high-strength alloys in more than 140 different delivery forms, it is normally only a small step leading from the presentation of a problem to its solution.

Meeting the tightest tolerances we manufacture:

- round wire from 0.3 to 22 mm
- section wire - flat wire
- round bars  
from 1.0 - 14 mm in lengths  
up to 3.000 mm

Based on our know how as a wire producer and an innovative material distinguished by excellent properties



light and durable



cold headable and capable for bending



machinable and turnable



capable for polishing and anodising



good electrical and thermal conductivity

by flexibility and adaptability we have been in the position to extend our market position continuously.

Being an independent, family owned company since 1919 our mostly longstanding customers are knowing us as a reliable partner.



Unloading of a truck



Raw material inspection



Wire drawing machine

# Unlimited Possibilities

our Qualities "all over the world"



Jumbo coil



Materialtesting laboratory



Detail of wire drawing machine



Spooling process



## CERTIFICATE

The TÜV CERT Certification Body  
of TÜV Rheinland Industrie Service GmbH  
certifies in accordance with  
TÜV CERT procedures that

**ELISENTAL**

**Drahtwerk Elisental**  
**W. Erdmann GmbH & Co.**  
Werdohler Straße 40  
D - 58809 Neuenrade

has established and applies a quality management system for

**Manufacture and sales of wire and  
rod of Aluminium, Aluminium-Alloys  
and Magnesium-Alloys**

An audit was performed, Report No. 4263.

Proof has been furnished that the requirements according to

**DIN EN ISO 9001:2000**  
are fulfilled.

The certificate is valid until 2010-02-11.

Certificate Registration No. 01 100 4263



Cologne, 2007-03-06

First certification 1994

**TÜVRheinland®**

*Arman*  
TÜV CERT Certification Body of  
TÜV Rheinland Industrie Service  
GmbH

[www.tuv.com](http://www.tuv.com)







**Examples of Problem Solving fasteners**

### Mechanical Joining Technology

For the production of screws, rivets, nails, pins, bolts etc. we produce wire out of

- naturally hard and
- age hardenable alloys



**Aluminium wire for mechanical joining technology**

### Welding Technology

Elisental fillers - multiple scalped - are suitable for the highest technological requirements due to special production methods. (Please ask for our special leaflet).



**Aluminium Filler wire**

### Packaging Technology

Since many decades, aluminium wire with its specific properties is a well proven packaging material:

Applications:

- Clips for food stuff
- Tea bags
- Nets
- Hoses
- Clipstrips



**Aluminium wire for packaging purposes**

### Bending and shaping

For bending and shaping applications naturally hard and age hardenable aluminium alloys are used meeting at the same time the requirements for high strength and good bendability.



**Aluminium wire for bending and shaping**

# Unlimited Possibilities

also in environmental protection



Aluminium wire for vacuum metallisation

## Vacuum Metallisation Technology

For the metallisation of packaging resp. capacitor foils and formed parts high-grade super pure and pure aluminium wires are used. According to customers' requirements the wire is supplied layer-wound on spools, in production or in compact wound coils.



Aluminium wire for machining purposes

## Machinability

Aluminium wires and bars are more frequently used in machining and turning operations for the manufacture of precision parts. Apart from the conventional alloys the age hardenable alloys become increasingly important because of their improved machinability and the low tendency towards edge build up.



Aluminium wire for metal spraying

## Metal Spraying

Elisental metal spraying wires are suitable for all systems actually in use and are distinguished by good processability and the achievement of excellent coating results.



Aluminium bars

## Aluminium Bars

Apart from the production of wire Elisental has also specialised in manufacturing round bars. We produce high-quality bars out of drawn wires using the newest straightening machines. The bars are produced in fixed lengths or production lengths up to 3.000 mm in the diameter range from 1.0 - 14 mm.

# Unlimited Possibilities

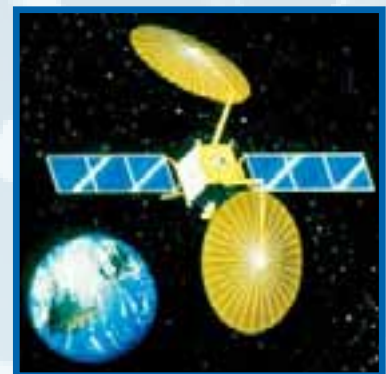
looking into the future



Construction sector



Automotive industry



High-tech industry

Today, it is expected that every supplier will find solutions for individual problems. Permanently optimised production methods and, above all, the material aluminium permit us to accept the challenge of the markets. The wide range of alloys allows us to be a supplier of large and important industry sectors.

- Automotive industry
- Construction industry
- Electronic industry
- High-tech industry
- Chemical industry
- Computer technology
- etc.

**Have the right "look" for our qualities.**



Transport and Traffic



Electronic industry



Petrochemical industry



If the leaflets  
- Forms of Supply  
- Materials  
have already been taken out,  
please contact us for the same.



# U n l i m i t e d P o s s i b i l i t i e s

with the versatile material aluminium

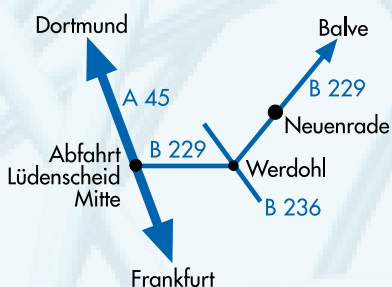
Products made out of aluminium wires can be found in almost all industrial sectors.

An almost unlimited range of applications is based on permanent developments of the material and new alloys.



**Ideas are impulses for unlimited possibilities.**

**We have the ideas.**



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