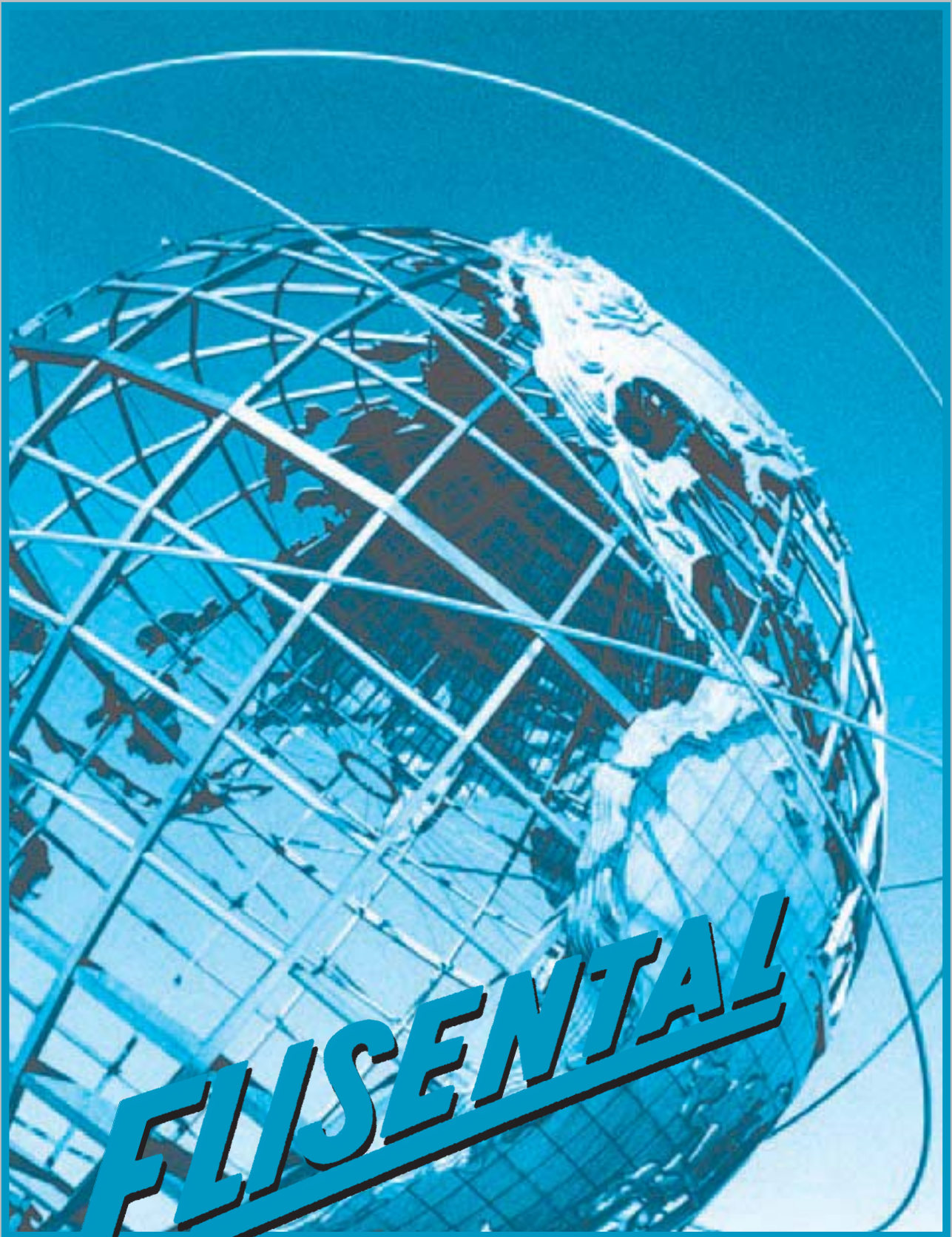


# Aluminium Wire



**ELISENTAL**

## Aluminium Wire

**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 50 extremely soft to high-strength alloys in more than 120 different delivery forms, it is normally only a small step leading from the presentation of a problem to it's solution.

Meeting the tightest tolerances we manufacture:

- round wire from 0.1 to 20 mm
- section wire - flat wire
- round bars - section bars from 1.0 - 15 mm in lengths up to 6.000 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"



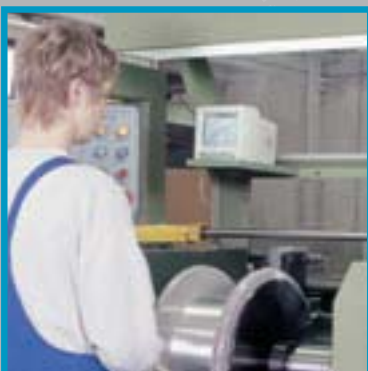
Jumbo coil



Materialtesting laboratory



Detail of wire drawing machine



Spooling process



## ZERTIFIKAT

Die TÜV CERT-Zertifizierungsstelle  
der TÜV Rheinland  
Anlagentechnik GmbH  
bescheinigt gemäß  
TÜV CERT-Verfahren, daß das Unternehmen

**Drahtwerk Elsental W. Erdmann GmbH & Co.**  
Werdoher Str. 40  
D-58809 Neuenrade

für den Geltungsbereich

**Drähte und Stäbe aus Aluminium  
und Aluminium-Legierungen**

ein Qualitätsmanagementsystem eingeführt hat und anwendet.

Durch ein Audit, Bericht Nr. 4263

wurde der Nachweis erbracht, daß die Forderungen der

**DIN EN ISO 9002**

erfüllt sind.

Dieses Zertifikat ist gültig bis **Oktober 2000**

Zertifikat-Registriernr.- 09 100 4263



Köln, den 04.12.1997  
Zertifiziert seit Oktober 1994

*DMK*  
TÜV CERT-Zertifizierungsstelle  
der TÜV Rheinland  
Anlagentechnik GmbH



„Everything is possible“

### Mechanical Joining Technology

For the manufacture 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

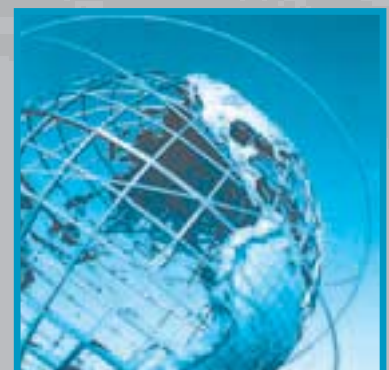
Elemental metal spraying wires are suitable for all systems actually in use and are distinguished by good processability and the achievement of excellent coating results.



Aluminium bars

## Aluminium Bars

Apart from the production of wire Elisental has also specialised in the manufacture of round and section 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 6.000 mm in the diameter range from 1.0 - 15 mm.



# Unlimited Possibilities

looking into the future



Construction sector

Today, it is expected that every supplier will find solutions for individual problems.

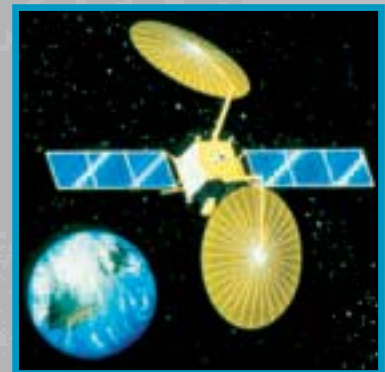
Permanently optimised production methods and, above all, the material aluminium permit us to accept the challenge of the markets. The wide range of alloys allows it to be a supplier of large and important industry sectors.

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

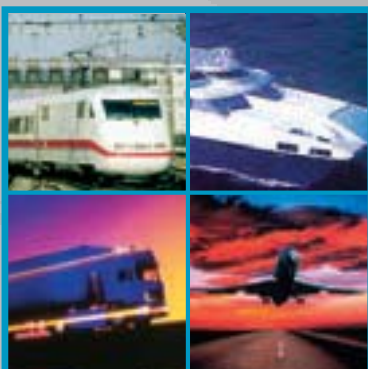
Have the right "look" for our qualities.



Automotive industry



High-tech industry



Transport and Traffic



Electronic industry



Petrochemical industry



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

with the versatile material aluminium

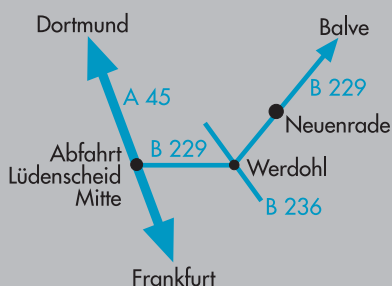
Products made out of aluminium wires can be found in almost all industrial sectors.

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.**



**ELISENTAL**

**Aluminium Wire**

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