



ULTRA-HIGH-STRENGTH FINE WIRES AND TECHNICAL CORDS

PERFORMANCE IN WIRE

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Our world is the world of wire. As a versatile and innovative partner with a unique research infrastructure, we can guarantee you high-quality solutions in your market environment. On the basis of our fundamental values of quality, flexibility, innovation and sustainability, we bring the motto "Performance in wire" to life in all process steps.

WIRE SOLUTIONS FOR DEMANDING INDUSTRIES



MOBILITY



ELEVATOR INDUSTRY



MUSIC WIRE INDUSTRY



SHAFT SEAL INDUSTRY

PRODUCT PORTFOLIO

Product	Application
Armouring wires	<ul style="list-style-type: none"> » Tensile armouring for conveyor belts » Pressure reinforcement for hoses and pipes » Armouring for textiles: Cut protection, puncture protection, impact protection
Bending parts	<ul style="list-style-type: none"> » Fuel injection systems
Erosion wire	<ul style="list-style-type: none"> » Tool making
Rope wire and cord	<ul style="list-style-type: none"> » Steel ropes and cords for elevator construction
Saw wire	<ul style="list-style-type: none"> » Cutting and sawing
Shaft seals	<ul style="list-style-type: none"> » Hydraulics and pneumatics
Spring wire	<ul style="list-style-type: none"> » Springs
Music wire	<ul style="list-style-type: none"> » Strings for piano, cello, violin and guitar
Tyre cord	<ul style="list-style-type: none"> » Steel cord for tire reinforcement
Packaging wire	<ul style="list-style-type: none"> » Reinforcement for packaging

Technical cords
Extract from our comprehensive product portfolio
<ul style="list-style-type: none"> » 1x0.32 + 6x0.30 » 1x0.30 + 6x0.25 » 1x0.28 + 6x0.23 » 1x0.25 + 6x0.20 » 7x4x0.175 + 0.15 » 3x0.25 » 3x0.32 » 3x0.41 » 7x0.160 » 3x7x0.22 » 4x7x0.35 » 4x7x0.45 » 3x0.385 / 9x0.360 » 7x7

YOUR CUSTOMER BENEFITS

- » voestalpine's own primary material basis, guaranteeing super-clean steels and perfect processes as well as meeting the highest requirements:
- » Technical properties that are consistent and uniform
- » Diameter range: 0.04 mm – 3.80 mm
- » Strength: Up to 5,100 MPa
- » Surfaces with a smooth layer thickness and top cleanliness in brass, zinc, and copper as well as bare or phosphate coated
- » Shortest production times thanks to advanced R&D facilities and the use of digital development tools for end products that are customised to meet the highest customer requirements
- » Specialised setup in application consulting:
 - Product properties
 - Refining products
 - Total cost of ownership



Ultra high strength fine wires

Diameter mm	Standard N/mm ²	Premium N/mm ²	Elong./break %
0.040		> 5,100	2.8 - 3.3
0.045		> 5,000	2.8 - 3.3
0.048		> 5,000	2.8 - 3.3
0.050	> 4,700	> 5,000	2.8 - 3.3
0.052	> 4,600	> 4,900	2.8 - 3.3
0.055	> 4,500	> 4,800	2.8 - 3.3
0.060	> 4,400	> 4,700	2.8 - 3.3

Saw wires

Diameter µm	Tensile strength up to N/mm ²	Breaking load up to N
90	4150	26
100	4100	32
120	3900	44
140	3800	58
160	3700	74
175	3500	84

