



Why choose Bekaert?

The wire drawing and coating specialist

Bekaert has the flexibility, the historical background, and the technical skills to create the product you need no matter what construction, shape, composition or mechanical characteristic. We have been in business for over 130 years and are available in over 120 countries.

Your strategic partner

Our global experience means that your products are manufactured to strict international standards of safety and quality. Our local presence means that we are at your service at all times. In the event of a question or concern, a trained professional will answer your call as soon as possible.

Whatever your application, we will work closely with you. Together, we will create a lasting solution that answers your needs.

Spring Wires

Your partner for a balanced solution

What can we offer you

Bekaert offers a wide range of spring wires that can be refined to meet specific product or production requirements. Our thorough technical knowledge and our access to a wide range of alloys enable us to develop reliable wire products. By learning your needs, we can supply a spring wire with a balanced combination of all the right properties and matching specific regulations.

Our capabilities

You decide the desired properties and Bekaert will deliver you a dedicated solution. We offer:

- **Broad selection of raw materials**
Low and high carbon steel, stainless steel alloys, etc.
- **Different tempers and treatments**
Hard rolled, end-annealed, pass-on annealed, induction hardened, oil tempered, etc.
- **High variety of rolled/drawn shapes or edges**
e.g. natural-edged flat shapes, sharp edged squares and rectangles, half ovals, half rounds, D-shapes, rounds, trapezoids and triangles
- **Customizable surface properties through the application of different coatings**
A wide range of hot dip and non-metallic coatings as well as coatings specifically design for critical spring applications: Bezinal® XC and Bezinal® XP

| Coating type | Coating composition | Properties |
|-----------------------------|---------------------------------|--|
| Metallic coatings | Zinc | Good corrosion resistance |
| | Bezinal® (ZnAl) | High corrosion resistance |
| | Bezinal® XP (ZnAl) | Superior corrosion resistance |
| | Bezinal® XC (ZnAl) | Excellent coilability |
| Basic coatings | Phosphate | Good coilability |
| Metallic + passive coatings | Bezinal® Color (ZnAl + polymer) | Color coding |
| | Bezoplast® (ZnAl + PET) | Superior corrosion resistance + color coding |

Bekaert (www.bekaert.com) is a world market and technology leader in steel wire transformation and coatings.

Bekaert (Euronext Brussels: BEKB) was established in 1880 and is a global company headquartered in Belgium, employing more than 25 000 people worldwide. Serving customers in 120 countries, Bekaert pursues sustainable profitable growth in all its activities.

Would you like to know more about our products and services?

Feel free to contact us.

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www.bekaert.com

Some applications

Automotive spring applications



Suspension springs: high impact resistance and reliable strength



Clutch springs: high shear yield strength and low weight



Seat belt springs: good tension and recoil strength



Oil seals: phosphated, galvanized or stainless: good corrosion resistance, excellent mechanical properties



Power springs: a broad range of sizes and tensile strengths with excellent fatigue properties



Springs for locks and brakes: Bezinal® coated: good formability and high corrosion resistance

Equipment



Electric components: durable, high tensile wire for highly demanding applications



Clips and forming wire: good formability, smooth pay-off and reduced set-up times



Valve springs: stiff, strong and light

Consumer goods



Medical springs: High-end Bezinal® XC or XP coated spring wires, highly adaptable premium stainless steel alloys



Washing machine spring: rectangle shape: bigger contact area for more friction between spring and drive shaft



Aerosol springs: superior corrosion resistance and uniform surface properties

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