

Hard drawn shaped spring wire



Durable compact strength

Benefits

- 1 Optimal force distribution
- 2 Consistent edge geometry
- 3 Long-lasting performance

Create stronger and more compact springs with Bekaert's hard drawn shaped wire. By using square or rectangular wires, you can achieve springs that are stronger than traditional round wires with the same product properties and design. Alternatively, you can also produce lighter and smaller springs with comparable spring loadings as round wire.



Smooth production.

High performance.

Bekaert hard drawn shaped wire consists of unalloyed, patented high-carbon wire that supports the production of highly dynamic springs. Thanks to a high level of process control, the wires feature very consistent edge radii, which prevent cracking at surface stress point and contribute to a longer fatigue-life. The smooth corner edges and stable dimensions of the wire enable a smooth coiling process.

More design flexibility

Due to different geometrical force distribution, shaped wire obtains higher stiffness values than round wire. As a result, they accommodate greater design flexibility to operate in compact spaces and enable the production of springs with optimal fill factors.

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.

Prolonged service life

Depending on the environment in which the spring is used, additional protection is needed. To avoid post-coating, it is possible to pre-coat the wire with Bezinal® XC if your design allows it. This advanced zinc aluminum coating of our own design provides superior long-term corrosion resistance in some of the most demanding spring applications.

Product range

Bekaert is able to combine a broad range of steel wire sizes, tempers and tensile strengths to reach excellent fatigue properties for your specific spring design. Corner radii start from 0.15 mm. Radii smaller than 0.15 mm are only available upon request.

● Standard product dimensions :

- Width : 1,00 – 3,20 mm
- W/T ratio : 1 to 1,5

● Standard coating: phosphate

- Zinc, Bezinal® XC or other alloys are available upon request.

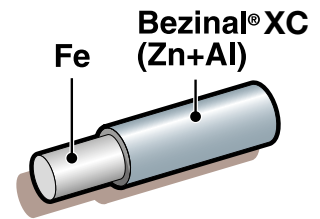
● Product properties meet EN 10270-1 (SL/SM/SH/DM/DH) standards

Available shapes

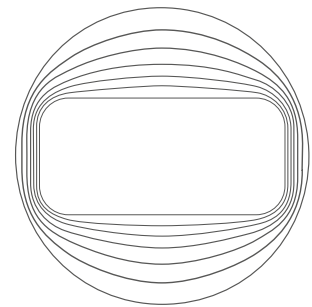
- Squares
- Rectangles
- Trapezoids (incl. beveled)
- Special shapes (on request)

Packaging

- Z-unit coils
- Metal spools
- Spider/Stem



Bezinal® XC is a new type of zinc aluminum coated wire that has been specifically designed for high-end, critical springs. Bezinal® XC is suitable for extremely demanding applications, especially when dimensional stability is critical.



Bekaert offers a wide variety of profiled wires in a broad range of dimensions with tensile strengths.



Bekaert hard-drawn shaped spring wire features consistent edge geometry.
Image: square shaped cross section of 1,2 x 1,2mm.

Contact us

More
Information?

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