

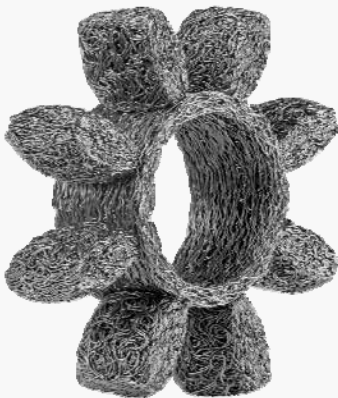
Spider from wire

6/2010

- Knitted goods for high-temperature applications -

The standard material of KTR elastomer spiders is thermoplastic polyurethane for applications covering the temperature range between - 30 and + 90° C. It is produced in different kinds of Shore hardness's, on one hand depending on the damping requirements and on the other hand depending on the torsional stiffness that is required. Both parameters are closely connected to temperature.

To extend the application range of vibration-damping couplings, a spider made from knitted wire was developed for our ROTEX® coupling.



Extensive measurements in the temperature range from - 40° to + 180° C have shown that the figures for torque capacity, torsional stiffness and damping practically remain the same. In addition, taking into account an ambient temperature of + 30° Celsius, the characteristic curves are quite comparable with those of standard elastomer spiders,

Thus, damping as a primary characteristic of ROTEX® remains the same and the characteristic curves remain invariable even with permanent load.

The benefit of knitted spiders becomes obvious with applications in the high-temperature range of $T > 120^{\circ} \text{C}$ as well as applications in a corrosive environment, since non-corroding material is used.

Characteristics:

- Material: knitted special steel wire
- High temperature resistance up to 250°C with almost invariable torque capacity, torsional stiffness and damping
- Chemical resistance or resistant to aggressive environmental influences
- Electro-conductive

Applications:

- Mechanical engineering
- Chemical industry
- Food industry
- Automobile industry
- Medical and pharmaceutical industry
- Hydraulic power packs
- Steel mills

For further questions about the spider from wire, please contact:



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