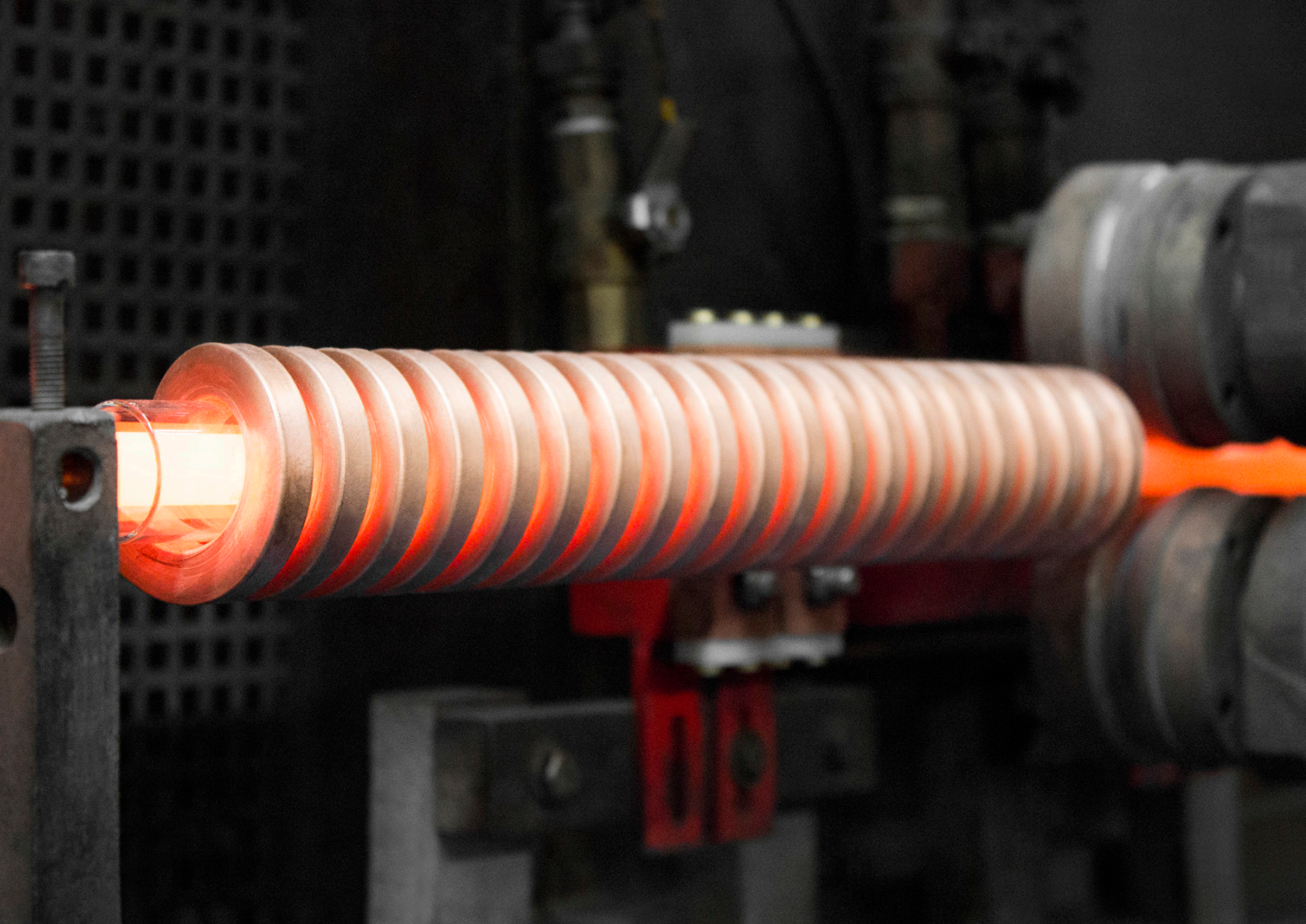


# Induction Tempered Steel Wire



## Product information | Technical data sheet

Mubea produces cold drawn, inductively tempered steel wire to meet all industry and Automotive OEM quality standards. The Mubea robust wire is ideal for high stress and lightweight applications.

For all kind of manufacturers of cold formed compression, tension and torsion springs, Mubea offers a diversified portfolio of wire diameters and tensile strength classes. The spring wire is produced using a highly efficient coil-to-coil operation for cold drawing and inductive heat treatment of the wire. Precise wire

sizing, 100% in-line surface inspection, and control of mechanical properties ensure the highest level of quality meeting all major Industry and Automotive OEM standards. High degree of flexibility, specialized technical support, and short production lead-times allow Mubea to satisfy stringent customer expectations.

## Wire requirements

High strength values  
(Tensile Strength, elongation, reduction of area)

High geometrical accuracy

Excellent surface condition

Defect free raw material

## Structure and Material Properties

Homogeneous, fine-grain structure

Minimized surface decarburization (<100 µm)

Tempered martensite microstructure

**Optional** SuperClean quality from released raw material sources

Tight tensile strength control, ±25 MPa

## Geometry

Minimized fluctuations wire diameter and roundness

Tight diameter control, ±0,05 mm

## Surface

Excellent surface condition ideal for high stress applications

**Optional** 2-step surface grinding process available

Minimized surface flaws with 100% in-line inspection by Eddy current

In-line application of rust preventative oil

## Applications

Compression springs (cars, trucks, off-road vehicles, engines, agriculture, industry)

Tension springs for various industrial applications (closures, automotive components)

Torsion springs (garage doors, pre-tensioning components, automotive components)

## Materials & dimensions

Application	Technical Standard*	Steel Grades	Wire Size Range	Tensile Strength*	Delivery Condition
Compression / Tension / Torsion Spring	DIN EN 10270-2	54SiCr6 (SAE9254)	Ø 7,5 – 20,0 mm ≤ 22,0 mm	max. 2.050 MPa max. 2.000 MPa	Coil weight: 1.400 – 2.900 kg  Coil dimension: ID – min. 1.680 mm OD – max. 2.300 mm
		60SiCr6	Ø 7,5 – 18,0 mm	max. 2.100 MPa	

\* Please inquire about customized solutions for tolerances, tensile strengths or other properties

