



Automotive springs demand reliable and robust performance to prevent failure in use.

British Steel's spring grade steel undergoes rigorous testing to meet our customers' stringent and safety-critical requirements.

Dedicated products for the automotive industry

Our in-depth experience and expertise in the automotive industry enables us to overcome these application challenges and manufacture wire rod and wire in premium spring grade steels, tailored to our customers' specifications.

Our wire rod is supplied with a fine lamellar pearlite structure for optimum wire drawing and can also be supplied with an annealed structure for enhanced formability. For further details of our processing capability, please refer to our Wire Processing Centre datasheet.

Rigorous testing for quality assurance

The quality of our products is assured by our comprehensive testing procedures conducted in well-equipped laboratories to verify stringent criteria such as segregation, steel cleanliness, scale, surface quality, decarburisation, chemical composition, size, shape and tensile strength properties. Our products meet the required standards for the most arduous and safety-critical applications.

British Steel is accredited to IATF 16949:2016 the internationally-adopted quality management system standard for the automotive industry, ISO 9001:2015 for our quality management system and ISO 14001:2015 for our environmental management system.

Delivering quality

Our streamlined dispatch facilities allow us to offer an efficient delivery service. The combination of bespoke lifting equipment and minimal handling avoids post-rolling surface-related issues.

Global reach: local supply

We have wire rod manufacturing facilities in the UK and the Netherlands, supplying premium products around the world, supported by an international network of regional sales teams, so our global customers receive local service.

Technical support from our specialists

Our team of experienced metallurgists provides dedicated technical support to our customers, including selection of the most appropriate steel grade and size, detailed metallurgical analysis to solve specific processing problems, and the development of new and more advanced grades of steel for increasingly demanding applications.

Wire rod dimensions

Rod diameter	5.5 - 30.0mm in 0.5mm increments
Coil weight	1,800 - 2,200kg
Coil length	1,000 - 1,700mm
Coil dimensions	Outside diameter: 1,300mm max Inside diameter: 800mm min

Note: Coil weight and length are dependent on rod diameter and grade combination. Specific coil package dimensions to be agreed at time of order placement/enquiry.

Automotive spring steel grades

The table below indicates the typical chemical analysis levels for British Steel's automotive spring steel grades.

Standard	Grade	C	Si	Mn	P	S	Cr	V
EN10089	54SiCr6	0.52 – 0.56	1.40 – 1.50	0.60 – 0.70	< 0.015	< 0.010	0.60 – 0.70	-
	54SiCrV6	0.53 – 0.57	1.35 – 1.45	0.60 – 0.70	< 0.015	< 0.010	0.52 – 0.62	0.10/0.15

Additional grades

We also supply a range of high carbon grades for high-pressure environments. Please contact us to discuss your requirements.

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WRSD:ENG:062020

