

British Steel's low carbon wire rod is used to manufacture a range of wire wool applications across the automotive, woodwork, metalwork and general domestic sectors.



Our low carbon wire rod addresses the need for strength, surface quality and consistent microstructure for wire wool applications including use in brake pads, wood and metal polishing and cleaning pads.

Our technical team is available to offer advice from point of enquiry and our integrated production process facilitates rigorous inspection at all stages to deliver precisely the steel you need – just when you need it.

Rigorous testing for quality assurance

The quality of our products is assured by rigorous testing procedures conducted in well-equipped laboratories to verify stringent criteria.

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

Wire rod dimensions

Rod diameter	5.5 - 17.0mm in 0.5mm increments	
Coil weight	1,800 - 2,200kg	
Coil length	1,400 - 1,650mm	
Coil dimensions	Outside diameter:	1,250mm max
	Inside diameter:	850mm min

Wire wool steel grades

The table below indicates the typical chemical analysis levels for British Steel's as-rolled steel grades for wire wool applications.

Chemical composition											
Grade	C	Si	Mn	P	S	Al	N	Cr	Cu	Mo	Ni
W12	0.07 – 0.12	0.03 – 0.10	0.65 – 0.85	0.030 max	0.025 max	0.01 max	0.010 max	0.10 max	0.10 max	0.02 max	0.10 max
W12HM	0.08 – 0.12	0.07 – 0.14	0.80 – 0.95	0.025 max	0.020 max	0.01 max	0.009 max	0.10 max	0.10 max	0.02 max	0.10 max

Surface, scale, size and shape

The maximum surface imperfection depth is 2.0% of the rod diameter.

Dimensional tolerances are in accordance with EN 16124 class T2 (i.e. +/- 0.25mm, 0.40mm max ovality).

Material will be suitable for scale removal by mechanical or acid means (as directed by the customer).

Mechanical properties

The as-rolled ultimate tensile strength (UST) will be measured and reported (based on batch average testing). Typical UTS ranges (based on 7.0 – 9.0mm diameter) are as follows:

Grade	UTS (MPa)
W12	400-450
W12HM	420-470

Certification

Our wire wool grade is certified in accordance with EN10204 3.1.

BRITISHSTEEL.CO.UK/WIRE-ROD

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