



CARBON FIBRE AND CARBON RODS

Quick Overview

A range of carbon materials suitable for our carbon coaters, are available. Carbon fibre can be supplied in standard purity or high purity and in varying lengths. Carbon rods are high purity and are available as 3.05mm diameter or 6.15mm diameter (depending upon coating system) and in various lengths and pack sizes.

High purity carbon fibre

Sometimes referred to as 'braid', carbon fibre consists of eight separate strands of individual carbon fibre braided together. The fibre is manufactured so that, when cut, the ends resist unravelling. The fibre density is about 1.6g/m.



High purity carbon rods

Carbon rods are typically used for evaporating (and sometimes shadowing) carbon onto specimens being prepared for either x-ray microanalysis (EDS or WDS) or transmission electron microscopy (TEM). All our carbon rods are high purity - spectroscopically pure with less than 6ppm ash.



Product Description

Shaping carbon rods

We strongly recommend the use of carbon rods with 'stepped' profiles. Tapered (pencil-like) profile rods can be used, but have two practical disadvantages over 'stepped' profile carbon rods:

- Electric resistance (and therefore evaporation characteristics) changes during evaporation
- During evaporation (if an FTM is not fitted) it is harder to estimate how much carbon has been evaporated from a tapered carbon rod. With 'stepped' profile carbon rods, an end point is reached when the entire first step has been evaporated.

Storing carbon fibre and carbon rods

Carbon fibre and carbon rods should be stored in a clean, dry environment - if possible under vacuum or in a sealed vessel with an appropriate desiccating agent.

Additional Information

Ordering Information	Carbon fibre cord	
	C5421	Carbon fibre cord - standard grade - 1m
	C5421-10	Carbon fibre cord - standard grade - 10m
	C5421-100	Carbon fibre cord - standard grade - 100m
	A0819	Carbon fibre cord - high purity - 1m
	A0819-5	Carbon fibre cord - high purity - 5m
	C5461	Carbon fibre cord - standard purity, fine strands - 1m
	C5461-10	Carbon fibre cord - standard purity, fine strands - 10m
	C5461-100	Carbon fibre cord - standard purity, fine strands - 100m
	Unshaped high purity carbon rods	
	C5420	Carbon rods - high purity - 3.05 mm Ø x 100mm (pack of 10)
	A0830A	Carbon rods - high purity - 6.15mm Ø x 100mm (pack of 10)
	Shaped high purity carbon rods NB: 3.05mm diameter carbon rods are used with the K950X, K450X and K350. 6.15mm diameter carbon rods are used with the K975X and with most older Polaron-branded carbon evaporators.	
	A0834A	Shaped ('stepped') carbon rods - high purity - 3.05mm Ø x 50mm (pack of 10)
	A0832A	Shaped ('stepped') carbon rods - high purity - 6.15mm Ø x 50mm (pack of 10)

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Registered Office: Unit 19, Charlwoods Road, East Grinstead, West Sussex, RH19 2HL, UK

Ordering Information	Carbon rod shapers	
	S8658	Hand-held shaper (supplied as standard with all carbon coaters)
	SC7605	Motorised carbon rod grinder for 6.15mm Ø and 3.05mm Ø carbon rods

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For further information regarding any of the other products designed and manufactured by Quorum Technologies, contact your local representative or directly to Quorum Technologies at the address above.

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