



Schunk Carbon Technology

# Schunk Black Magic®

Perfect protection against contamination and wear



# Schunk Black Magic® - Carbon protection coating for durable surfaces

Use the innovative coating technology Schunk Black Magic® to reliably protect components and equipment made of metal or plastic against wear and prevent surface contamination.

## Exceptional wear and corrosion resistance

When untreated metal or plastic surfaces are exposed to increased friction, their service life falls sharply. A corrosive atmosphere dramatically intensifies this effect. Our pure carbon Schunk Black Magic® coating allows you to optimize the surface hardness and corrosion resistance of your base materials. This increases their service life and resistance - even under the toughest conditions.

## Uncompromising safety for your samples and measuring results

In analytics, samples can become contaminated simply from coming into contact with the metal tip of a pair of forceps or from resting on a metal surface. Schunk Black Magic® also offers the ideal solution to this particular challenge. The pure carbon protection coating prevents any potential contamination, providing maximum safety when handling valuable samples and ensuring that your measurement results are highly reliable.



Schunk Black Magic® - tough against corrosion  
During automated laboratory use of atomic absorption spectrometers with a flame atomizer or a graphite furnace, metal surfaces come into contact with large quantities of acidic and corrosive chemicals. This leads to surface corrosion. Sealing these surfaces with Schunk Black Magic® can sharply reduce this corrosion, significantly extending service life.



Micro spatula with Schunk Black Magic® coating prevents sensitive samples from becoming contaminated with metal or an electrostatic charge that causes the sample material to "jump out".

## The benefits of Schunk Black Magic®

- > Greater surface hardness and reduced friction, even for porous and difficult surfaces
- > Increased corrosion resistance
- > Self-lubricating surface
- > Metal-free handling of solid samples in analytics
- > Absorption of infrared radiation reduces reflection
- > Temperature resistance up to 400° C

Uncoated metal reverse-action forceps



Reverse-action forceps with Schunk Black Magic® coating

Reverse-action forceps coated with Schunk Black Magic® can grip ultra-pure samples and components securely and without contamination.

From our range

Blunt forceps, 115 mm  
Material No.: 10608060



Pointed forceps, curved, 115 mm  
Material No.: 10608062



Reverse-action forceps, pointed, 120 mm  
Material No.: 10608063



Micro spoon, 150 mm 5x3 mm  
Material No.: 10608059



Spoon (coffee/tea spoon), 150 mm  
Material No.: 10608066



Laboratory kit including a variety of spatulas and forceps with Schunk Black Magic® coating



Contamination-proof - a high-purity graphite cuvette for atomic absorption spectroscopy gripped using reverse-action forceps with Schunk Black Magic® coating

Do you want to have one of your components coated with Schunk Black Magic®? It is generally possible to coat a wide variety of metal and plastic components. We can also add a logo of your choice to your product on request. Our materials specialists will be happy to advise you on coating your components, and can be contacted by telephone at +49 (0) 641 608-0 or by email at [blackmagic@schunk-group.com](mailto:blackmagic@schunk-group.com).



Schunk Black Magic® coating with logo

| Options        | Additional costs  |
|----------------|-------------------|
| Schunk Logo    | Additional charge |
| Customer Logo* | Additional charge |
| Gift packaging | Additional charge |

\*according to template (.dxf or .jpg file)



We can also include gift packaging on request.



# We are Carbon Technology

**Schunk Carbon Technology is a global leader in the development, manufacture and application of carbon and ceramic solutions. Like no-one else, Schunk Carbon Technology combines its innovative spirit and technological expertise with its exceptional customer service to provide a unique range of products and services.**

With its highly specialized technology portfolio covering mechanical and electrical carbon, technical ceramics and high-temperature products, Schunk Carbon Technology is able to offer solutions customized perfectly to diverse industrial application. You will find our products in millions of motors in vehicles, electric tools and household appliances, in the rail and aviation industries, in heat treatment processes, also in the fields of solar and wind energy, medical technology and the semi-conductor industry.

Schunk Carbon Technology combines comprehensive carbon material knowledge for thermal processes and develops special graphite grades, dedicated for analytical use. The leading technology for high-temperature purification and coating provides ultra-clean, temperature resistant and if required pyrolytically coated graphite parts.

## **A Schunk Group division.**

Schunk Carbon Technology is a division of the Schunk Group, a globally operating technology corporation with over 8,100 employees in 29 countries, which develops customized high-tech solutions in the fields of carbon and ceramics technology, environmental simulation, climate technology, sintered metal and ultrasonic welding.

## **Schunk Kohlenstofftechnik GmbH**

Rodheimer Str. 59

35452 Heuchelheim - Germany

Phone +49 641 608-0

Fax +49 641 608-1223

E-Mail: [blackmagic@schunk-group.com](mailto:blackmagic@schunk-group.com)

[schunk-carbontechnology.com](http://schunk-carbontechnology.com)

All specifications are subject to technical change. Texts and pictures are subject to copyright laws. Use of the content is not permitted without the written consent of Schunk Carbon Technology.