

**Press information
Metallfolien 01 / 2003**

D-Roth, May 2003

Special silver foils for batteries, expanded metals and punched metal foils

For the production of special batteries containing silver foils, it is important that the silver foils have a high purity, high electrical conductivity and a very clean and plain surface.

The silver foils of Schlenk Metallfolien are made of high purity silver types, like Ag 99.97% and Ag 99.99% and therefore enable batteries of best quality.

Additional advantages of Schlenk foils are the good flatness and the special cleaned surface for excellent bond after coating process as well as the high electrical conductivity. For example, silver type 99.97% has a minimum electrical conductivity of 63-66 m/Ohm mm at 20°C.

Narrow tolerances are standard. The silver foils are as well suitable for expanded metals and punched metal foils.

To fulfil customer needs for space saving in finished equipment and reductions in product weight and cost, a thickness range starting at a minimum thickness of 0.010 mm (0.0004") is offered. Standard thickness range is available up to a maximum thickness of 0.100mm (0.004"). For customers special needs this thickness range can be increased up to a maximum thickness of 0.150mm (0.006") on request. The foils can be delivered in widths from 1mm up to 350mm (0.04"-13.8").

Industry areas

In addition to battery production silver foils are used by the aviation industry for the shielding of very sensitive electronic equipment. The cable industry utilizes silver foils for shielding of special cables for military application and aviation application. In medical engineering silver foils are taken for medical plasters, in food industry for coating pills and sweet. Another usage is in processing supra conductors / super-conductors.

Tailor-made

Due to Schlenk's unique capabilities as a speciality rolling mill, it is possible to produce not only big quantities but also smaller quantities as well as special demands for research and development.

www.foilcenter.de started

For customers quick access to technical information of special thin and ultra thin metal foils Schlenk has recently finished the website www.foilcenter.de, an extensive information site separate to the company's homepage.

About Schlenk

The German company Schlenk Metallfolien GmbH & Co. KG, with its main office located in Roth-Barnsdorf near Nuremberg, has more than 70 years of experience in manufacturing metal foils. Over the last ten years there has been a consequent specialization in the company towards rolling ultra-thin metal foils. The premier metal being rolled today is copper and some of its alloys (tombak, brass, bronze), resistance materials (copper-nickel). In addition the company produces other non ferric metals such as pure nickel, german silver and precious metal like pure silver foils. Most of these metals can be rolled down to 0.0055 mm (5.5 microns). The Quality Management System of Schlenk is certified to DIN EN ISO 9001 : 2000.

2.423 characters

Reproduction unrestricted

If used in print or editorials please provide a proof copy to
Wassenberg www.prandevents.de
Thank you!

Company contact:

Gerhard Loeckler
Schlenk Metallfolien GmbH & Co KG
Barnsdorfer Hauptstr. 5
D-91154 Roth-Barnsdorf
Tel.: ++49 9171 / 808 - 280
Fax: ++49 9171 / 808 - 200
e-mail: foils@schlenk.de
visit us: www.schlenk.de
www.foilcenter.de

Press contact:

Michaela Wassenberg
Wassenberg www.prandevents.de
Scharnhorststr. 36
D-90491 Nuernberg
Tel.: ++49 911 / 598 398 – 0
Fax: ++49 911 / 598 398 – 18
e-mail: m.wassenberg@prandevents.de
www.prandevents.de