

Electronic Materials

ADXXXX-XX

Air Dry Silver Materials

Description:

The air dry silvers are used to make non-conductive surfaces electrically and thermally conductive. They can be used in circuit repair or as RF shielding materials. Most can be brushed, sprayed or dipped. These materials will cure at room temperature in 16-20 hours or in 30 minutes at 120-200°C. A heat gun will cure the material in seconds. The conductivity of the film can be increased by repeated application of layers.

● Key Benefits:

- Electrically and thermally conductive
- Curable at room temperature
- Available in a range of Ag loadings
- High adhesion to most materials
- Solvent resistant
- Pb and Cd free

● Product Listing:

AD1308-08

% Ag: 30% ± 1%
Method: spray, dip or brush
Solvent: RV-095 (Arcosolv Pm®)

AD1459B

% Ag: 45% ± 1.0%
Method: spray, dip or brush
Solvent: RV-493 (Ethyl Cellosolve)

AD1488-03

% Ag: 48% ± 1%
Method: spray, dip or brush
Solvent: RV-493 (Ethyl Cellosolve)

AD1548-07

% Ag: 54% ± 1%
Method: screen print, brush or stencil
Solvent: RV-220(Hexylene Glycol)

AD1608-05

% Ag: 60% ± 1%
Method: spray, dip or brush
Solvent: RV-095 (Arcosolve Pm®)

AD1688-06

% Ag: 68% ± 1%
Method: spray, dip or brush
Solvent: RV-493 (Ethyl Cellosolve)

● Processing Notes:

- Laydown thickness is proportional to silver content.
- Surfaces do not have to be prepared prior to application.
- Materials will adhere to polymer (phenolic) boards, ceramic, glass, metal, plastic and fiberglass.

Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment.

Storage:

Store in a dry location at 5°C -25°C.
DO NOT REFRIGERATE.
Allow paste to come to room temperature prior to opening.
Spatulate well before using.

YY1010.10

Electronic Materials

ADXXXX-XX

Air Dry Silver Materials

The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

Americas

Heraeus Materials Technology LLC
Thick Film Materials Division
24 Union Hill Road
West Conshohocken, PA 19428
USA
Phone: +1 (610) 825-6050
E-Mail: techservice.hcd@heraeus.com
Internet: www.thickfilm.net

Europe

W.C. Heraeus GmbH
Thick Film Materials Division
Heraeusstr. 12-14
63450 Hanau
Germany
Phone: +49 (6181) 35-5466
E-mail: th-info@heraeus.com
Internet: www.heraeus-thickfilm.com

Asia

Heraeus Materials Technology
Shanghai Ltd.
No. 1 Guang Zhong Road
Zhuangqiao Town, Minhang District
Shanghai 201108
People's Republic of China
Phone: + 86 (21) 3357-5688
E-Mail: th.hmts@heraeus.com
Internet: www.heraeus-thickfilm.com