

TECHNICAL DATASHEET

Elecolit® 3423

Elecolit® 3423 A/B is an easy to use, 1 to 1 mix ratio, two part, heat cured, flexible, silver-filled epoxy adhesive.

Elecolit® 3423 A/B system may be used for making electrical and mechanical attachments on electrical components and devices. Unlike typical heat curing system, this product always results in excellent conductivity and is less sensitive to handling and ambient conditions.

Shelf life:

6 months at 25°C

9 months at 5°C

12 months at -40°C

Technische Daten :

Color	silver
Resin	epoxy
Filler	silver

UNCURED PROPERTIES

Viscosity	paste-like
Flash point	-
Pot-Life [hours]	PE-Norm P019 approx. 48

Curing

90	minutes at	80	°C	0,0004 Ohm x cm
1	hours at	100	°C	
15	minutes at	120	°C	
5	minutes at	150	°C	
0,75	minutes at	175	°C	0,0002 Ohm x cm

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-60 to 175
Hardness Shore D	PE-Norm P052	72
Volume resistivity [Ohm x cm]	ASTM-D-257-93	0.002
TG DSC [°C]	PE-Norm P009	60 to 65
Thermal conductivity [W/mK]	ASTM 1530	6.5

Our data sheets have been compiled to the best of our knowledge. The information included in our data sheets is exclusive information for the intended user and describes characteristics, with no declaration of commitment. We recommend trials in order to confirm that our products satisfy the particular application requirements. For an additional technical consultation, please contact our RD department. In general, for guarantee claims, please refer to our standard terms and conditions.

Adhesives
and more...

Mechanical Data

Lap Shear Strength (Stahl/Stahl) [MPa]

[PE-Norm P013] approx. 10,5

Instructions for Use

Surface Preparation

The surfaces to be bonded should be free of dust, oil, fat or any other dirt in order to optimise reproducible results. Lightly soiled surfaces can be cleaned with cleaner IP to create a suitable working surface.

Application

Our Elecolit 2-C products are delivered in separate packing units. Resins can crystallize at deep temperature storage- this process will be reversible by heating for 1 hour at 40°C.

The components A and B have to be homogenised well, weigh out in mixing ration and homogenised with each other for min. 2 minutes.

From now, the pot life time starts and the adhesive has to be applied rapidly.

You can dispense or use them for screen printing processes.

Curing

For curing heat must be applied. In some cases they will cure even at room temperature. But higher temperature will reduce the curing time. For detailed curing information, please look into the technical data sheet. Higher curing temperature will lead to better electrical conductivity and less volume resistivity.

If help is required, please contact our engineering department.

Please read the corresponding **Safety Data Sheet** for this product.