



# FLUXOPOX 50MK

MAGNETIC FLUX CONDUCTIVE ADHESIVE

- \* **RELATIVELY LOW VISCOSITY – EASY TO USE**
- \* **THE BEST FOR ELIMINATING AIR GAPS FROM MAGNETIC CORES**
- \* **REDUCE MAGNETIC LOSSES**
- \* **REDUCE MAGNETIC TYPE HUM**

## GENERAL DESCRIPTIONS:

**FLUXOPOX 50MK** is a two components epoxy base formulation with magnetic flux conductive properties. This formulation is especially designed for eliminating air gaps within magnetic cores on magnetic flux path, what significantly can reduce magnetic leakage and magnetic energy loss.

Important additional benefits for producers military or consumer goods is, that **FLUXOPOX 50MK** adhesive will eliminate or reduce magnetic type hum. This is especially important in numerous applications where currently shielding is employed or where people are in contact with the device or apparatus.

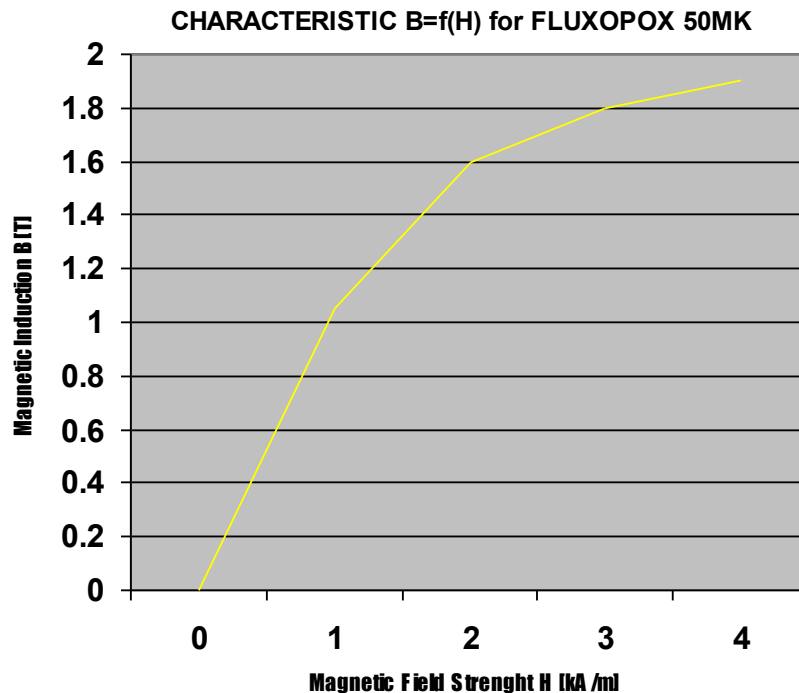
## SPECIFICATIONS:

Number of components	Two
Consistency	High viscosity paste
Color	Grey
Percentage of fillers	83 ± 1%
Specific gravity	3.3 – 3.5 g/cm <sup>3</sup>
Mixing ratio (by weight)	A : B = 100 : 2.9
Recommended curing schedule with air-circulated oven	100°C – 20 min. 120°C – 10 min. 140°C – 7.5 min.
Curing with IR tunnel oven	Ramp: 20° - 120°C – 2.5 min. Ramp: 120° - 160°C – 1.0 min. Ramp: 160° - 20°C – 0.5 min.
Curing at room temperature	20° - 30° C – (7-12) hours + postcuring
Pot life	90 min (at 25°C)
Shelf life	12 months (when storage at 15°C – unopened)

## **TECHNICAL PROPERTIES (\*):**

Magnetic relative permeability $\mu_r$	Max. 20
Magnetic inductance	$B_{max} \geq 2T$ (with magnetic field strength ab.40 A/cm)
Thermal conductivity	2.2 – 2.6 W/mK
Electrical resistivity after curing	$> 10 E(8) \Omega m$
Glass transition temperature (Tg)	90°C (TMS Method)
Max. operating temperature	Continuous - 140°C
Lap shear strength (Al-Al)	1.4 – 1.7 kG/mm <sup>2</sup>
Weight loss	0.4% up to 180°C

(\*) - Typical value for number of tests.



## **ATTENTION:**

1. Product is ready for use, but should be mixed very thoroughly before use using steel spatula or mixer. Mix smoothly from the bottom of the container. Mix carefully - not to whip air into the product.  
**INSURE FLUXOPOX 50MK IS AT ROOM TEMPERATURE WHEN YOU WILL START WORKING WITH.**
2. Prepare consistency before use according your SPECIFICATION.
3. If you need, use AXMC **TH # 50MK** thinner. Thinner will change paste mechanical properties. Pls, do not exceed 1.5% of weight. After first tests pls let us know about your viscosity requirements – we will be able to change it for you.
4. Low mechanical properties and poor adhesion performance are symptomatic that paste is under curing conditions.
5. Refrigeration during shelf time is useful. Keep container with adhesive in temp. no less 15° C. Before

- use, increase paste temperature very slowly.
6. Use paste with adequate ventilation.
  7. Avoid skin and eye contact. If ingested, wash with soap and water and consult a physician immediately.
  8. Tools should be clean by alcohol or other suitable solvents.

This information is based on data and tests believed to be accurate. **AMEPOX MC** makes no warranties ( expressed or implied ) as to its accuracy and assumes no liability in connection with the use or inability to use this product.

( flux50MK )