



FLUXOPOX 80EK

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 80EK is a single component 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 80EK** 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.

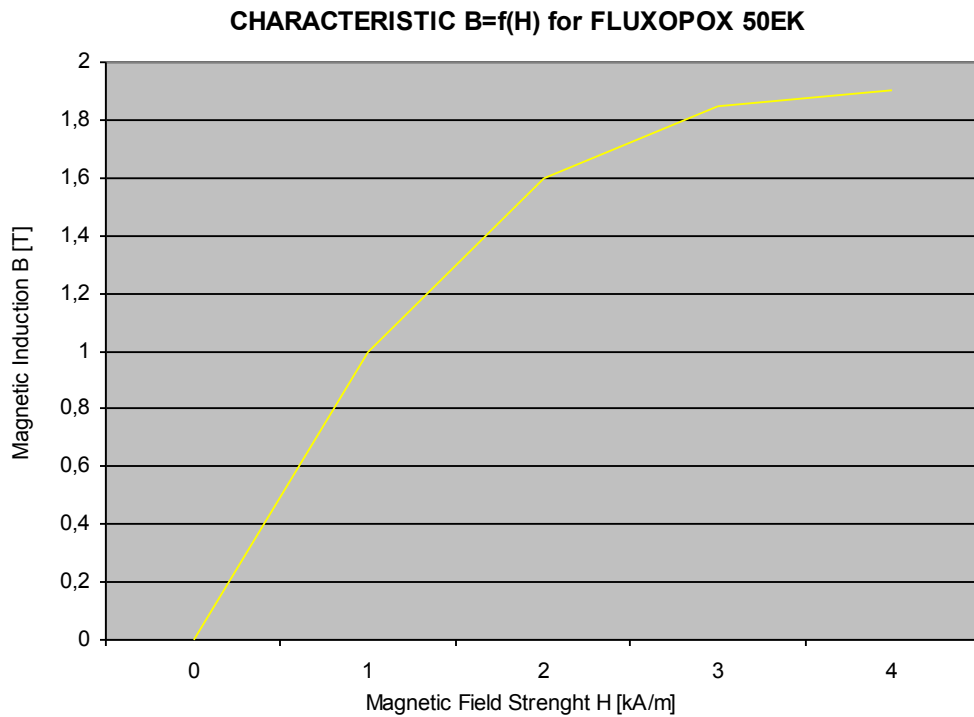
SPECIFICATIONS:

Number of components	One
Consistency	High viscosity paste
Color	Grey
Percentage of fillers	85 ± 1%
Filler particle size	2.7 - 3.5 µm
Specific gravity	3.3 – 3.5 g/cm ³
Recommended curing schedule with air-circulated oven	150°C – 60 min. 170°C – 20 min. 180°C – 10 min.
Curing with IR tunnel oven	Ramp: 20° - 120°C – 2.5 min. Ramp: 120° - 170°C – 1.0 min. Ramp: 160° - 20°C – 0.5 min.
Shelf life	12 months (when storage at 15°C – unopened)

TECHNICAL PROPERTIES (*):

Magnetic relative permeability μ_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)	95°C (TMS Method)
Max. operating temperature	Continuous - 140°C
Lap shear strength (Al-Al)	1.4 – 1.7 kG/mm ²
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 80EK 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 # 80EK thinner. Thinner will change paste mechanical properties. Pls, do not exceed 1.0% 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.

(flux80EK)