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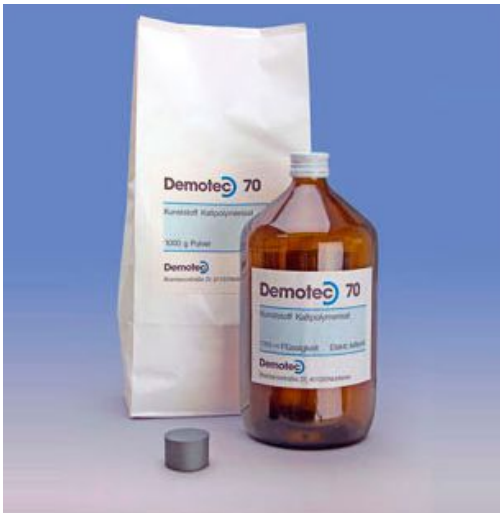
Demotec 70 Electroconductive Resin

AGB8830 & AGB8831

Instructions

DEMOTEC 70 is a two-component material, powder and liquid, based on modified methyl methacrylate and conductive carbon. It is conductive resin suitable for embedding specimens which are to be electrolytically polished or to be examined in the SEM or microprobe.



Preparation

All samples for embedding should be clean, dry and free from grease. Ultrasonic cleaning is recommended.

Mixing

DEMOTEC 70 is mixed in the ratio as follows:

By weight:	**By volume:**
1 part powder	8 parts powder
1 part liquid	5 parts liquid

- The mix-ratio can be varied slightly. However, the best results will be achieved using the above
- Pour the required quantity of liquid into the mixing beaker
- Add the powder
- Mix thoroughly using a wooden spatula until the embedding material has become a homogenous paste
- Polymerisation of DEMOTEC 70 begins when the powder is added to the liquid and the viscosity remains low for approximately 4 minutes
- At room-temperature (21 degrees centigrade) DEMOTEC 70 cures within 15 minutes. As the excellent electro-conductivity is obtainable only in a cold sample it should have cooled down completely
- The peak temperature during curing is about 110 degrees centigrade for 10g of embedding material

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Recommended Accessories

Mixing beaker (polyethylene).
Wooden Spatula for mixing.
Embedding moulds (Teflon or PE).