SCANDIA
MATERIALOGRAPHIE

AEQUIDUR

USER INFORMATION

www.scan-dia.com

English Version

INTENDED USE

Embedding specimen for materialographic polishing.

This leaflet describes the product regarding its properties and processing requirements.

SAFETY INSTRUCTIONS

Carefully follow the requirements stated in the Material Safety Data Sheet.

MATERIAL

AEQUIDUR is used to adjust the hardness of embedding compounds for materialographic polishing. Mixing AEQUIDIR into the compounds will increase the resulting hardness.

AEQUIDUR is a white, very fine grain pourable powder. AEQUIDUR is available in three different hardness levels:

- Type S - soft
- Type M - medium
- Type H - hard

Using AEQUIDUR, the hardness can be adjusted in the range between aluminium and carbide metal.

PROPERTIES

Using AEQUIDUR especially hard surfaces and improved edge definition will be achieved. Joint fissures between embedding compound and specimen will also be avoided. With AEQUIDUR a clear separation of edge zones, enamel layers, nitrided cases etc. is possible. The formation of reliefs during polishing is reduced or even avoided. Mixing AEQUIDUR into the compound does not impact curing time. The resulting specimen is well suited for grinding and polishing. No particles will break away.

AEQUIDUR can be used with cold setting embedding compounds. SCAN-DIA recommends using embedding compounds from the SCAN-DIA portfolio, as the formulations are well coordinated and proven. Handling of AEQUIDUR is quick and easy.

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DOSING

Mix equal parts (by volume) of embedding compound and AEQUIDUR.

In order to help with dosing, SCAN-DIA recommends using the dosing aid (Part-No. 9160). The dosing aid consists of silicone rubber cups for mixing and graduated spoons for dosing of AEQUIDUR.

PROCESSING

Mix the components of the embedding compound (resin + hardener). Carefully observe the instructions for use of the embedding compound selected.

Set aside appr. ¼ of the mixed embedding compound in a separate jar, e.g. a silicone rubber mould. Add the same amount – or the amount determined by yourself - of AEQUIDUR. Mix AEQUIDUR and the embedding compound with a glass stirrer until the powder has been mixed homogenously into the embedding compound.

Silicone rubber moulds are recommended for embedding. SCAN-DIA's SCANDIFORM moulds are particularly well suited for this purpose. Ensure that there is a 2 mm gap between the sample and the inside of the mould.

Choose a mould fitting your specimen.

Pour enough embedding compound with AEQUIDUR into the mould to form a 2 – 3 mm thick layer at the bottom. Using a pair of pliers, insert the specimen into the mould, slightly pressing it down into the bottom layer. Ensure that no air bubbles are trapped beneath the specimen.

Now fill the mould completely with the remaining embedding compound without AEQUIDUR, leaving a 1 mm gap at the top.

Wait for the specimen to cure.

GENERAL INFORMATION

AEQUIDUR should be stored in a cool, dry environment. Shelf life is unlimited if stored properly (20° C and well closed bag).

NOTE ON CLEANING THE TOOLS (MIXING CUPS, STIRRERS, ETC.)

Clean all tools immediately after use by wiping them down with paper towels. The product can not be chemically removed once cured.

The statements made here are based on our present up-to-date knowledge.

If, despite having followed the above instructions, the results are not to your complete satisfaction, please do not hesitate to contact us, as SCAN-DIA is at your disposal for any further assistance or information you may require.

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THESE PRODUCTS MIGHT BE INTERESTING FOR YOU

AEQUIDUR MEASURING AID

SCANDIFORM

Silicon rubber embedding mould - circular

SCANDIFORM

Silicon rubber embedding mould - rectangular

SCANDIQUICK

cold hardening acryl resin

SCANDIPLEX

cold hardening epoxy resin

SCANDIPLAST

cold hardening polyester resin

Our entire product range can be found at

www.scan-dia.com