

09929 Leit-C

Product Description:

Leit-C is an electrically conductive cement for specimen mounting in SEM-work featuring good adhesive quality. Due to its electrical conductivity, all conductive specimens are ready for investigating, immediately after drying of the cement. Non-conductive specimens must be coated with carbon or metal, but no additional treatment is necessary such as painting conductive bridges, which may contaminate the specimen by spreading of silverdag or solvent. Leit-C contains only hydrogen, carbon and oxygen with no other residue after drying. For that reason, no characteristic spectral peaks are found in Leit-C. When analyzed with an energy dispersive spectrometer, there is only the continuum to be found. If the entire specimen-holder is painted with Leit-C, the cement will mask the holder and there are no X-rays produced in the holder, which could interfere with the analysis of the specimen itself.

Application

For powders or very light specimens, a thin layer of for bulk specimens, a heavier layer is painted on the specimen-stub. If powders are to be mounted, allow a short drying-period (of several minutes), so that the powder does not sink into the wet glue. Trial and error will show the correct predrying. Heavier specimens can be directly placed into the wet paint. After drying, only carbon (with acrylic binding agents) is left. Drying is simply the physical process of evaporation of the organic solvents. Depending upon the thickness of the layer, the drying time varies from a few seconds (very thin film) up to 30 minutes (for a heavy coat). The rate of evaporation is set in such way, that the entire bottle can be used up without thickening of the contents – assumed closing the bottle after each use. If however the viscosity does get too high, Leit-C – Thinner may be added. Xylene or toluene easily cleans tools or instruments which accidentally were contaminated with Leit-C.

Nature of the special risks

Leit-C

Highly flammable (R 11)

Harmful by inhalation (R 20)

Contains Xylene

Leit-C-Thinner

Highly flammable (R 11)

Harmful by inhalation (R 20)

Irritating to respiratory system (R 37)

Safety advice

(EEC directive)

Leit-C and Leit-C-Thinner

- 1) Keep container in well-ventilated place (S 9)
- 2) Keep away from sources of ignition – No smoking (S 16)
- 3) Avoid contact with eyes and skin (S 24/25)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

The vibrant M and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates.

Detailed information on trademarks is available via publicly accessible resources.

© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

