

deconex® 38 CU

Corrosion inhibitor for copper and copper alloys

Suitable for use in soaking baths and ultrasonic cleaning systems



Application

deconex® 38 CU is a liquid corrosion inhibitor for copper and copper alloys (e.g. brass, copper-beryllium, nickel silver). It is used mainly as a long-term corrosion inhibitor. Alternatively it can be combined with a non-ferrous metal-incompatible cleaner to prevent corrosion in the cleaning step as well as in the rinsing and drying steps that follow.

deconex® 38 CU is used in soaking baths and ultrasonic baths. When used as a long-term corrosion inhibitor, it is sufficient to add it to the soaking bath. In this case, dilution must be performed with demineralized water.

Properties

deconex® 38 CU is chemisorbed on the metal surface, i.e. strongly bound, thereby providing long-term protection. The passivating effect of deconex® 38 CU suppresses the corrosion-promoting effect of copper ions on less inert metals such as on aluminium and iron.

In general, treatment with deconex® 38 CU does not have any detrimental effect on the electrical properties of metal surfaces. Since the product prevents corrosion, subsequent operations such as soldering, coating or electrolytic processes are facilitated.

Ingredients

Corrosion inhibitor, solubilizer

Dosage

In practice, the following dosage has given good results:

| | Temperature | Exposure time |
|---|-------------|---------------|
| Dosage as cleaner additive | | |
| 0.1-0.2% | 60-80 °C | 3-5 min |
| Dosage as long-term corrosion inhibitor | | |
| 0.01-0.1% | 20-50 °C | 2-5 min |

When used as a long-term corrosion inhibitor, demineralized water must be used to dilute the product.

Material compatibility

Suitable for:
Copper and copper alloys, hard metal, gold, silver

For materials not mentioned please make your own specific compatibility tests or consult Borer Chemie AG.

deconex® 38 CU

Chemical/physical data

| | | |
|------------|------------------------------------|------------------------------------|
| pH | 1% solution in demineralized water | approx. 5-7 |
| Density | concentrate | 1.06 g/mL |
| Appearance | concentrate | transparent, yellow to light brown |

Availability

Please ask your local representative about current container sizes.

Containers, screw caps and labels are made of recyclable polyethylene.

Additional information

For information concerning safety at work, storage and waste disposal/effluent, please consult the corresponding safety data sheet.

Take advantage of our vast know-how! Please, contact us for further information regarding your specific application.

Manufacturer:

Borer Chemie AG

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