

Electro wet cleaning

Rivolta Special products



Rivolta CASSIDA VITROLIS RivoGLUE antidot.



Electro wet cleaning

Electrical systems require regular maintenance to ensure continuous safe and smooth operation and reduce follow-up costs. Our cleaning solutions help to improve and restore the electrical conductivity of current-conducting materials and ensure stable resistance values for insulating materials. At the same time, they support the optimisation of thermal conductivity - for maximum efficiency and operational reliability of your applications.

Wet cleaning of electrical systems is a cleaning process using liquid cleaning agents. Cleaning can be carried out on deenergised and energised electrical systems.

This means in detail:

- Ensuring the availability of the system
- Maintenance measures in accordance with DGUV regulation 3 (formerly BGV A3 §5) Proper condition of the electrical system and equipment
- Can also be carried out in the event of mains water, fire and extinguishing water damage as well as after flooding and heavy weather events
- Minimisation and elimination of sources of interference
- Extending the service life of individual components
- Reduction of the risk of fire
- Better identification of faults
- Cleanliness in the workplace

Which systems or components De-energised cleaning work can be cleaned?

Our field service will be happy to advise you! Here are a few examples of where electro wet cleaning can be used:

SWITCH CABINETS, MOTORS AND GENERATORS

LOCAL NETWORK STATIONS

CIRCUIT-BREAKERS AND DISCONNECTORS

DRY AND OIL TRANSFORMERS

WELDING TRANSFORMERS

E-STACKERS, CHARGING COLUMNS, STORAGE AND RETRIEVAL MACHINES, CONDUCTOR RAILS AND SLIP RINGS Example of an electrical enclosure cleaning procedure:

- De-energise the system in compliance with the five safety rules
- 2. Remove loose dirt
- 3. Line the base of the switch cabinet with absorbent cloths, foil
- 4. Dismantle or cover components if necessary
- 5. Pre-cleaning with Rivolta O.C.X. or E.V.R.
- 6. Main cleaning with mit **Rivolta S.L.X. Series**
- 7. Possible post-treatment of the components with Rivolta S.L.X. 500
- **8.** Remove lined cloths
- 9. Dry the system completely and thoroughly
- 10. Clean the outside of the switch cabinet ** with Rivolta B.W.R. 180 or B.W.K.
- **11.** Switch the system back on***
- Five safety rules in accordance with DGVU regulation 3: 1. Disconnect, 2.
 Secure against reconnection, 3. Ensure that no voltage is present, 4. Earth and short-circuit, 5. Cover or isolate neighbouring live parts.
 No live parts.
- ** No live parts.
 *** This process description does not claim to be exhaustive. An examination of the exact circumstances and determination of the work steps to be carried out can only be carried out individually by a specialist on site.

| | Product | Properties |
|-------------|---|--|
| Cleaning | B.W.K. | ready-to-use cleaning agent removes the most stubborn dirt universally applicable replacement for solvents |
| | B.W.S. | ready-to-use cleaning agent quick-drying very good material compatibility free from colourants and fragram |
| | E.V.R. | ready-to-use cleaning agent compatible with metals, plastics and solvent-resistant paints no AuS |
| | 0.C.X. | penetrates and dissolves stubbon and sulphide layers reduces repair and maintenance non-conductive, does not cause l rents |
| | S.L.X. 500 | fast, residue-free evaporation no flash point dielectric strength >130 kV/cm |
| | S.L.X. 1000 | fast, residue-free evaporation no flash point dielectric strength >190 kV/cm |
| | S.L.X. Super | slow, residue-free evaporation no AuS dielectric strength >190 kV/cm |
| | S.L.X. Top | • medium-fast, residue-free evapo • no AuS • dielectric strength up to >150 kV/ |
| Accessories | High pressure cleaning device | mains-independent device 4 l (6 l for processing electric cleaners optimum dosing via nozzle compact and impact-resistant |
| | Wet/Dry vacuum cleaner | suction and drying function high air volume, low pressure no mechanical damage to compo |
| | Cleaning pads | • scouring fleece |
| | Foamer | large filling volume of 1.5 litres side-mounted pressure releases factory-fitted special nozzle proc active-cleaning foam |
| | High pressure cleaning device SF 23 Pro | equipped with safety spraying eq device is mounted on a mobile tro very low material consumption low noise level |

Fields of application

| : | for cleaning non-stress-bearing components made of plastic, painted surfa- ces and metal workshop equipment mould removal |
|---|--|
| y Inces | for cleaning non-stress-bearing plastic components, painted surfaces and Plexiglas covers finish surface cleaning |
| s, elastomers | for pre-cleaning electrical systems dissolves dirt from the environment, such as pollen and insects |
| orn e.g. oxide e costs leakage cur- | wet cleaning of electrical systems and devices high-frequency, low or high-current technology |
| | • wet cleaning of electrical systems and devices, even when energised |
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| | • wet cleaning of electrical systems and de- vices |
| ooration //cm | • wet cleaning of electrical systems and de- vices |
| bar) S | for safe, quick and thorough cleaning of elec- tromechanical assemblies |
| onents | for safe, fast and thorough pre-cleaning and drying of electrical systems |
| | • for removing stubborn/resinous soiling |
| valve oduces a stable, | • for processing aqueous cleaners |
| quipment rolley | • airless processing of the cleaner via membrane technology |

Switch cabinet



Control system

"As an electrician, you are initially sceptical when an electrical operating room is to be cleaned with liquids. However, curiosity and pictures of successful cleanings led us to the decision to take a closer look at this topic. After more than six years of experience with electronic wet cleaning, I can say that I am convinced by this method. If electrical system components of a solar park are to be cleaned with satisfactory results, there is no way around electro wet cleaning. Especially with systems that are exposed to external influences such as dust and insects, conventional methods such as hoovers and hand brushes quickly reach their limits. If all the steps of electro wet cleaning are followed properly and the cleaners are used correctly, there is no other method of getting the stations so thoroughly clean."



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