

# BIO-RUST

## pH-neutral deruster

bio-chem BIO-RUST, the new innovative product for the fast and reliable removal of rust from metals in the pH-neutral range. from slight rust films to fingerprint corrosion to the removal of thick rust layers – bio-chem BIO-RUST is the ideal deruster. Also tarnish is effectively removed from brass and copper, the metal will be brightened.

## Excellent material compatibility

bio-chem BIO-RUST is free from halides. It smoothly "picks" the rust from the surface, so that the thickness of the metal surface will not be decreased. This also means longer service life for parts and tools.

## Increased occupational safety

bio-chem BIO-RUST is water-based and dispenses with aggressive acids in high concentrations. The film on the surfaces is removed smoothly and bound to the metal ion. bio-chem BIO-RUST is no hazardous preparation and does not qualify as dangerous goods during transport. The product meets the legal requirements (substitution of hazardous substances in accordance with the Ordinance on Hazardous Substances) on the replacement products subject to mandatory labelling. Occupational safety for employees and users will be increased.

## Highly efficient and with fast results

The highly efficient bio-chem BIO-RUST is delivered ready for use. After only about 30 minutes of contact time the parts can be taken out. After the rust has been removed, neutralization of the parts or surfaces will not be necessary. Sensitive parts have to be rinsed with water. If the parts are stored after removing the rust, we recommend the application of corrosion protection. Our application specialists in the lab will be happy to assist you.

## Procedure

bio-chem BIO-RUST already works at ambient temperature. Rust removal times can be accelerated by increasing the temperature. Temperatures of over 40 °C (104 °F) will reduce rust removal times by 50 %. Also ultrasound will support the process. As a rule, ultrasound will achieve rust removal times of 5 to 10 minutes.

## Environment

The product works in the neutral pH range. It contains select ingredients that are easily biodegradable in accordance with OECD standards. This provides bio-chem BIO-RUST with an outstanding ecological profile. Moreover it contains no solvents of any kind and can be considered as VOC-free. After use no costly neutralization of the product and the rinse water is required. For the disposal of the used solution please observe the local official regulations.




## Application

It is optimally suited for the application in immersion processes. Temperature or ultrasound will support the effect, thus shortening process time. Best results will be achieved at temperatures of 35–45 °C (95–113 °F). bio-chem BIO-RUST features a slight cleaning effect. Remove heavy oil- and grease contaminations beforehand, using products from the bio-chem UNO or STAR range.

## Always the best! Cleaning with

**bio-chem**  
Surface Technology

### BIO-RUST

-  **A01052** 10 L jerrycan
-  **A03052** 30 L jerrycan
-  **A20052** 200 L drum

