

RUSTOSAN RUST REMOVER

➤ Scope

In all engineering operations involving use of sheet metal, grease or oil is always there. Besides, light to medium rust exists under the oil or grease. After mechanical processing, painting is required and no paint will adhere to an oily, greasy or rusted surface.

All large engineering organizations using sheet metal, adopt a process known as seven tank system. The sequence followed in the seven tanks, runs as under: -

1. Degrease
2. Rinse with running water
3. Remove rust
4. Rinse
5. Phosphatize
6. Rinse
7. Passivate

The system needs lot of space, equipments and effluent treatment facility, very costly and involves large investment. Small and medium sized companies cannot afford to adopt the system.

It is for smaller engineering companies where rustosan provides the solution. It removes oil/grease, rust and also phosphatize the surface. That is how the product is described as 3-in-1. Why phosphatize? A phosphatized surface, gives better adhesion and longer protection to any paint coating.

➤ Areas of Application

Any iron or steel fabrication, which needs painting, must be cleaned, de-rusted and phosphatised, with the use of rustosan.

➤ Surface Preparation

Wipe off excess oil or grease, with a rag pad, before applying rustosan.

➤ Technical Data

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|----------------------|---|---------------------------------------|
| • APPEARANCE | : | Transparent yellowish/greenish liquid |
| • VISCOSITY | : | Watery |
| • WEIGHT/LITRE | : | 1.12 |
| • THINNER TO BE USED | : | Water |

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➤ Directions for Use

Depending upon the quantum of grease, oil and rust to be removed, rustosan should be diluted, two to four times its volume, with water. The diluted solution should be applied on the article, with brush or with rag pad and be kept aside for drying in air and preferably under sun. Do not wash with water. In case of heavy coating of oil/grease, the same should be wiped off with rag pad, before applying Rustosan.

The dried surface will be free from oil and rust. The rusty portion will turn dark grey, which is due to the conversion of rust into iron phosphate. For ascertaining the coating of phosphate, put a drop of 10% solution of ammonium molybdate which will turn greenish /bluish indicating the presence of phosphate radical.

➤ Notes

Rustosan being acidic in nature, plastic gloves must be used while handling. Eyes must be covered with safety glasses.

Remember, rust can also be easily removed with hydrochloric acid. It is very dangerous because hydrochloric acid forms ferrous chloride ions, which will result into heavy rusting afterwards and will not allow any paint to adhere to the surface.

➤ Disclaimer

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