



OXIFER GEL

Rust converter

Technical Data Sheet, October 2015

DESCRIPTION

OXIFER GEL is a dark brown viscous liquid, suitable for converting rust into an easily removable, self-protective ferrous salt and for protecting sound iron against subsequent oxidation.

FEATURES

The surface of unprotected iron tends to change into iron oxide as a consequence of the concomitant effects of aggressive agents, humidity and the oxygen in the air. Once oxidation has started off, it continues inexorably until the deterioration of the structure.

A preventive protection of iron, obtained by proper treatments, is the best action against rust.

When this treatment has not been carried out, either for negligence or impossibility, it is necessary to intervene a posteriori.

In this case, **Oxifer GEL** perfectly solves both the problem of rust and the one of the protection of iron until painting; besides, it allows a good delay in painting.

Thanks to its special composition, **Oxifer GEL** not only converts rust into microcrystals of iron tannate highly resistant to oxidation, but it also modifies and phosphates the surface of virgin iron making it resistant to aggressive agents.

The double efficaciousness of **Oxifer GEL** allows delaying all the subsequent treatments

Oxifer GEL does not drip and does not require to be wet after application.

USE

Oxifer GEL is used for removing rust from any kinds of iron structures, such as: moulds, bearing structures, reinforcing bars, casings, railings, gates, bodyworks, etc.

TECHNICAL DATA

	Data	Method
State:	Viscous Liquid	Visual
Colour:	Dark brown	Visual
Density:	1.13 ± 0.03 kg/dm ³	IST. 10.06
Potential of hydrogen (pH)	1.75 ± 0.75	IST. 10.05
Water solubility:	Totally soluble and dilutable	IST. 10.21
Stability:	Slight hazel sediment	Visual

- MODE OF USE** To obtain the best results with **Oxifer GEL**, it is advisable to remove the thick scales of rust with proper tools in order to avoid a waste of product. Then apply it on with a brush, a roller or by spray, let it act for 10-12 hours until the colour of the treated surface turns from brownish to black-violet, wash the surface with plenty of water to clean it from the black powder (*do not use washing-machines at high pressure*), wait until the surface becomes dry before applying any other desired treatment over the surface.
Shake the bottles and the cans vigorously before using.
- YIELD** The consumption depends on the state of the surface and the rust layer. A kilo of **Oxifer GEL** is normally enough to treat $10 \div 15 \text{ m}^2$ of ferrous surface.
- STORAGE AND VALIDITY** **Oxifer GEL** has 12-months validity beginning from the date of the delivery, only if it is sheltered from the sun and stored at temperatures between 0 and 40°C, in the original containers kept perfectly closed.
- PRECAUTIONS** **Oxifer GEL has highly acid pH, so it is necessary to handle it carefully.**
It is irritating by contact with the skin and eyes; in case of contact rinse plentifully with water. If the irritation does not stop, refer to a doctor.
It is easily removable from any surfaces with water and soap.
Inhalation can cause a slight irritation of the first part of the respiratory tract. Keep the product out of children's reach and far from foodstuffs. Do not disperse it in the environment.
It is advisable to use rubber gloves while using it. When spraying it on large surfaces, use a mask and goggles.
- PACKAGING** 1-kilo bottles
5/25-kg cans

The specifications stated in this report have been got either through standardized tests and rules or their modifications following Pentachem systems. The methods applied can be requested to our technical service.

All the data stated in this technical sheet are based on our knowledge and experience. However, before using the item differently from indicated, it is advisable to carry out preventive tests. In any case, PENTACHEM does not assume any responsibility for any damage or defect caused by the use of our products, as the employment conditions are not under our control. We also inform that our technical service is at our customers' disposal for any information concerning the correct employment of our products.