



OXIFER

Rust converter

Technical Data Sheet, November 2015

DESCRIPTION	Oxifer is a dark brown liquid suitable for converting rust into an easily removable self-protective ferrous salt and for protecting sound iron against subsequent oxidation.
FEATURES	<p>The surface of not protected 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.</p> <p>A preventive protection of iron, obtained by proper treatments, is the best action against rust.</p> <p>If this treatment has not been previously carried out, either for negligence or impossibility, it is necessary to intervene <i>a posteriori</i>.</p> <p>In this case, Oxifer 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.</p> <p>Thanks to its special composition, Oxifer 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.</p> <p>The double efficaciousness of Oxifer allows delaying all the subsequent treatments</p>
USE	Oxifer is used for removing rust from any kind of iron structures, such as: moulds, bearing structures, reinforcing bars, casings, railings, gates, bodyworks, etc.
MODE OF USE	<p>To obtain the best results with Oxifer, 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 and finally dampen with water. The treatment with water is important because it allows the product to act more deeply and for a longer time, and also to form layers of crystals that are finer and more resistant to oxidation. Shake the bottles and the cans vigorously before using.</p> <p>After 24 hours the product can be washed with running tap water to remove the unreacted Oxifer and the crystals not perfectly bonded. Once dry the ferrous artifact, purplish black color, is ready for the following protective treatments.</p>
YIELD	The consumption depends on the state of the surface and the rust layer. A kg of Oxifer is normally enough to treat $10 \div 15 \text{ m}^2$ of ferrous surface.

	Data	Method
TECHNICAL DATA		
State:	Liquid	Visual
Colour:	Dark-brown	Visual
Density:	1.155 ± 0.005 kg/dm ³	IST. 10.06
Hydrogen potential (pH)	1.75 ± 0.75	IST. 10.05
Water solubility:	Totally soluble	IST. 10.21
Stability	Slight sediment	

STORAGE AND VALIDITY

Oxifer has a 12-months validity starting from the date of delivery, only if it is repaired from the sun and stored at temperatures between 0 and 40°C, in the perfectly closed original containers.

PRECAUTIONS

Oxifer has a highly acidic pH, so it must be handled carefully.

It is irritating by contact with the skin and eyes. In case of contact, rinse with water. If the irritation does not stop, consult a doctor.

It is easily removable from any surface 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-kg bottles
5 and 25-kgs 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.