

FUNCTION

Water-based organic concentrate **corrosion inhibitor** for **ferrous** and **non-ferrous** metals. It is designed as a complete **replacement for oil-based preventives** for indoor protection of metal equipments and components. Added to metal working solutions, it also protects metals during **short or long immersion periods**.

FEATURES

- Fully **water-soluble** liquid, **safe** to apply
- **Non-flammable**
- Protects **ferrous and non-ferrous** metals
- Prevents **flash corrosion** on steel
- Forms an **hydrophobic** film on the metal surface, which **can be coated over** with conventional paint systems
- Free of **bore, phosphate, molybdate, silicate** or **nitrite**
- **Stable** in **hard waters**
- Exclusively made of authorized substances for **food-contact cleaners***
- Meets **PMUC standard** requirements**

TYPICAL APPLICATIONS

Mainly used for :

- Synthetic or semi-synthetic hydrosoluble **lubricants and metal working fluids** ;
- Hydrosoluble **hydraulic fluids** ;
- **Coolants** or **anti-freezes**.
- **Temporary protection** of metal equipment or components during transport and dry storage.
- Protection from **flash-corrosion** during **hydroblasting**.
- Protection of metal equipment during **hydrostatic test** procedures.
- Protection of metal equipment in **long-term contact** with a **static** aqueous solution: pipes during inactivity periods, tanks, containers,...

Can also be used in :

- Other solutions for **metal machining** (degreasing, stripping, polishing, cleansing under pressure, ...);
- Neutral-to-alkaline **detergents**.

HANDLING / SECURITY

Refer to updated Material and Safety Data Sheet.

TRANSPORT

No specific condition for transport.

Weight and packaging size*** (off-pallet) :

Pail : 1,5kg - Ø30, H50

Drum : 15kg - Ø60, H90

IBC : 70kg - L120, I100, H120

PRODUCT APPLICATION

The pH of the end solution needs to be above 7 for an optimal efficiency.

Metal working fluids

The Ascotran-L is added into water-soluble lubricants concentrates or ready-to use solutions to get a final dosage of **50 to 5000 ppm**, depending on the formulation, its pH, and the metal nature to protect.

Temporary protection

The Ascotran-L can be applied by spraying, dipping after being diluted into water, or inside the last metal working bath (washers, rinsing tanks, ...). Dosage from **2 to 15%** depending on the required protection duration.

Hydrostatic tests

The Ascotran-L is diluted into the water used for the test, at a dosage between **0,05 and 0,2%** depending on the metals to protect and the test duration.

Other applications

The Ascotran-L is mixed into water-based solutions at a dosage between **0,7 to 2%** depending on the solution nature and metals to protect.

PROPERTIES

Chemical nature :

Aqueous preparation made of organic acid salts and azole derivatives.

Appearance : yellow to amber limpid liquid.

Density (20°C) : 1,13 ± 0,02

pH pure (20°C) : 8,7 ± 0,3

Viscosity (20°C) : 700 ± 100 cps

Freezing point : < 0°C

Foaming power : very low

Miscibility :

Water : miscible

Ethanol : miscible

Isopropanol : non miscible

Glycols : miscible

Acetone : miscible up to 2%

White-Spirit : non miscible

PACKAGING

Plastic pail of **30kg** net.

Metal drum of **200kg** net.

IBC of **1000 kg** net.

STORAGE

Ideal **temperature conditions** : 0 to 30°C.

Exposure : avoid direct exposure to sunlight.

Expiration : 2 years in its original sealed drum, in the storage conditions described above.

With time, the colour of the product may turn darker, but it does not modify its properties.

*: according to decree of 08/09/99

** : Products and Materials Used in Centrals



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Reference : FTL revision J
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Indoor storage, flash-corrosion & long-term immersion protection

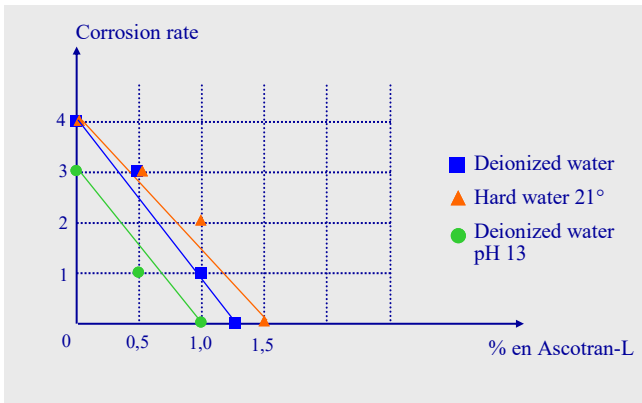
Corrosion Inhibitor

PERFORMANCE

Flash Corrosion Protection

Method : DIN 51360/part2

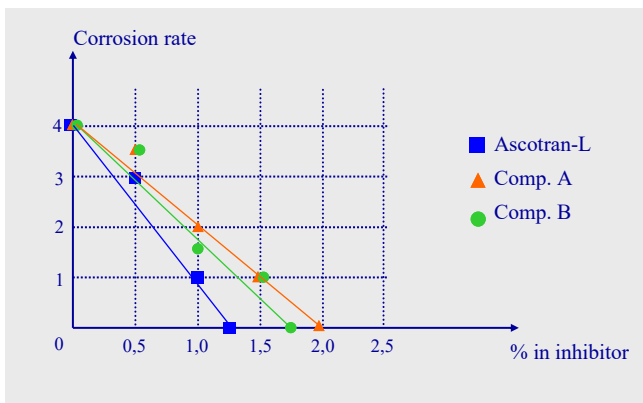
Performance in different media



Comparative study with competitors :

Medium : deionized water

Competitors A and B : liquid corrosion inhibitors



Protection against atmospheric corrosion

Method : climatic chamber, 25°C, 100% of humidity
 Substrate : mild-steel immersed few minutes in tap-water containing the inhibitor.

Max exposure time without corrosion of the substrate :

% in Ascotran-L	0 %	2%	5%	10%
Test duration without corrosion on mild-steel	<24h	100h	150h	>200h

Protection during immersion

Minimal protection duration of metal specimens immersed into tap-water at room temperature :

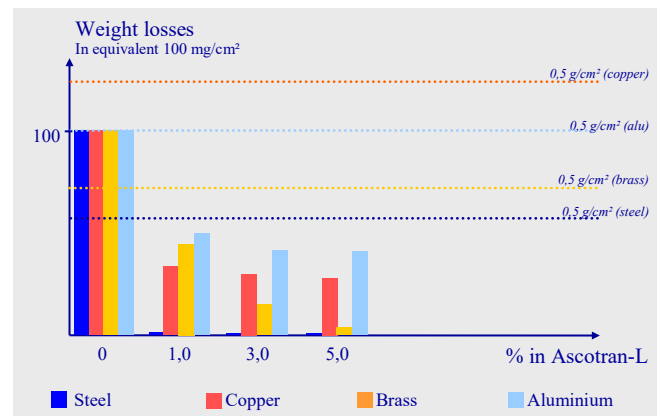
% in Ascotran-L	0 %	0,05%	0,1%	0,2%	0,3%
Mild-steel	< 1 d	1 week	1 week	18 m	36 m
Aluminium 99%	3 d	4 m	4 m	4 m	12 m
Copper 99%	3 d	9 m	36 m	36 m	36 m
Brass	< 30 d	36 m	36 m	36 m	36 m

Method IP329: weight loss measurement of metal specimens immersed into deionized water, at 45°C, during 4 months.

Specimens independently :



Specimens together (galvanic protection) :



Note : The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests ; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

