



RUST & SCALE

ALL NATURAL RUST AND SCALE REMOVER



Natural and Environmentally Safe, Rust & Scale Remover

Safely Removes Built-up Rust and Scale from Steel, Cast Iron, and Steel Alloy Materials

A New Concept in Cleaning

EcoStar Rust & Scale safely removes built-up rust and scale from steel, cast iron, and steel alloy materials. EcoStar Rust & Scale does not etch steels or cast iron materials although some pitting may be evident after cleaning due to the oxidation process of rusting. EcoStar Rust & Scale is not intended for use on or with aluminum, zinc, magnesium, copper, pyrite or non-ferrous metals. Unlike acids and caustic materials, this product requires no special handling or precautions for use.

Product Details

- **Thoroughly Cleans Rust & Scale Buildup:**
Removes built-up rust and scale from steel, cast iron and steel alloy materials
- **All Natural:**
This multi-enzymatic, biocatalytic agent is derived from food grade kelp and other natural ingredients
- **Leaves No Residue Behind:**
Leaves a clean surface
- **Cleans Without Acids or Other Caustic Chemicals:**
Will not damage surfaces or worker health
- **Easy to Use:**
Use as a dip, then rinse and allow to air dry
- **Rinses Easily and Quickly:**
Rinse thoroughly with water
- **Pleasant Odor:**
No irritating fumes, no disinfectant or chemical odors in workplace
- **Economical and Convenient:**
Saves our customers time and money
- **Nonflammable and Long Shelf Life:**
Safely used around open flames, store below 110°F in shade in sealed container
- **All Natural Ingredients:**
No phosphates, no nitrates, no VOCs, and no flash point
- **Safe for People and the Environment:**
Nontoxic and non-irritating to humans, animals, marine life and plants



Applications

- **Cleaning Rust and Scale from Steel, Cast Iron and Steel Alloy Materials:**
Cleaning times will depend on types of metal cleaned and the degree of rust (from 2-12 hours). Circulating the liquid will result in better cleaning action and longer life of the product.

Dilution Guidelines

Pour EcoStar Rust & Scale into a container made from stainless steel, fiberglass, polyurethane or similar plastics. Dip materials to be cleaned into EcoStar Rust & Scale. When materials are clean (usually 2-12 hours) remove from tank, thoroughly rinse, and air dry. Protect the metal with some form of rust inhibitor such as paint or oil. EcoStar Rust & Scale removes scale and other protection from metal. Therefore it is necessary to protect metal from re-rusting.

It is recommended that the cleaning tank contain some sort of filtration system and a means of circulating the liquid. This will result in better cleaning action and longer life of the product.

Cleaning time depends upon degree of oxidation and quality of the metal being cleaned. Metal should be checked periodically and removed when clean. For heavily oxidated metals, a reduction in cleaning time will result if you remove loosened material

Physical Properties

Form	Liquid
pH	5.0-6.0
Specific Gravity	1.02
Appearance	Dark Brown
Boiling Point	Water
Flash Point	None
Shelf Life	5+ Years*
Fuming Properties	None
Biodegradable	Yes

* if kept in sealed container, stored in shade and not exposed to extreme heat (over 110°F) for prolonged periods of time.

ecoStar®
Engineered Clean