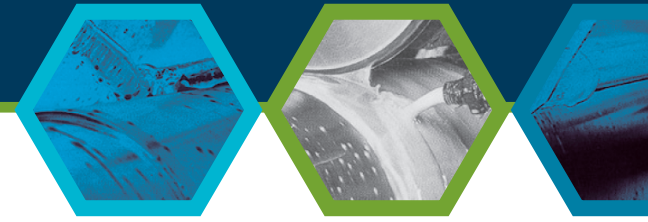


# RUST RID EU

CLEANER



## CUSTOMER: LARGE INDUSTRIAL MANUFACTURER

### PRODUCT

**Rust Rid** is a uniquely formulated water-based rust remover that exhibits a near neutral pH. Rust Rid is ideally suited for removing rust on cast iron alloys, tool steels, and all carbon steels. Rust Rid is most effective against surface and blush rust.

Rust Rid contains no caustic, toxic, or hazardous components. Rust Rid offers excellent wetting and defoaming properties allowing for uniform coverage on complex part geometries in immersion applications.

Although heat accelerates the rust removing ability of Rust Rid, it can be extremely effective at ambient temperatures if given sufficient concentration and processing time. For purposes of testing, evaluate Rust Rid at 15% to 25% in cold solutions and 5% to 20% in solutions at 140°F or 160°F depending on the substrate metallurgy and condition as well as the type and degree of corrosion being removed. Initial screening evaluations should be conducted in the lab prior to full-scale implementation under industrial conditions.

### PROCESS AND EQUIPMENT

Industry/Market	Industrial
Product Type	Cleaner/Rust Remover
Product Number	4163E0000
Machinery Involved	Immersion and Spray Wash Systems (heated)
Description of Environment	To remove light/heavy rust on ferrous components.
Volume Used	13,500 liters
Date of Use	2012 to present
Documented Cost Savings	> \$10,000

#### ▷ DESCRIPTION OF PROBLEM

The wash process previously used to wash ferrous engine parts, with rust present, used a corrosive rust removal chemical that was hazardous, causing severe chemical burns if exposure occurred. It rapidly damaged non ferrous parts, at the expense of the customer and was prone to foaming in high pressure spray washes.

#### ▷ SOLUTION

The Rust Rid EU was trialed against six other (competitors) products and out performed in the trials and a Pugh analysis. It can be used in spray and immersion washes to suit the customer requirements and is safe to handle, as it is not classified as hazardous.

#### ▷ CUSTOMER TESTIMONIAL

The customer continues to be impressed in the performance of the Rust Rid EU, as it performs to all their needs and meets their global goal of reducing hazardous processes, without compromising quality and efficiency. The customer has also recommended the Rust Rid EU to its sister sites and suppliers to improve the safety and efficiency of their processes.

