

RUST PREVENTATIVE OILS
SOLVENT BASED RUST PREVENTATIVES
DEWATERING FLUIDS
WATER DILUTABLE CONCENTRATES
WATER SOLUBLE ADDITIVES

RUST PREVENTATIVES

INTRODUCTION

PETROFER's range of rust preventives is highly effective in all industrial processes, and particularly for protecting finish machined high value components. Our range comprises: oils, water dilutable products, dewatering fluids, wax containing fluids and special products. Our product portfolio uses sustainable materials with chemistry to meet a customer's specific requirements. All products are barium free, some are VOC free and so an environmentally preferable solution.

Our customer partnership approach in rust preventatives has helped our clients with:

- good creeping properties
- reliable corrosion prevention
- excellent dewatering properties

PETROFER's product range of rust preventives provides our customers with a complete portfolio for the whole range of industrial processes. Advantages that benefit you and your company.

OUR PRODUCT RANGE

PROTECTION OILS

ISOTECT OM series rust preventive oils are used for intermediate storage of dry work pieces during and after production. Besides a rapid application speed, and a reliable corrosion resistance they offer further advantages being barium and VOC free (2010/75/EU). Typically the oils can be easily removed with a product from our FEROCLEAN series.

SOLVENT BASED RUST PREVENTATIVES

The ISOTECT XS range of solvent based rust preventives form thin rust inhibiting films, with the consistency depending on the chemistry type. Following evaporation of the solvent carrier, the residual film normally appears much drier than with rust preventive oils. The evaporation speed correlates to the solvent flash point, while offering a reliable rust prevention. The fast drying, light, almost dry films can easily be removed by our industrial cleaners from the FEROCLEAN range.

DEWATERING FLUIDS

ISOTECT WSD and OSD product types can rapidly dewater components, and offer a reliable rust prevention that is built following the evaporation of the solvent. Protection films are available in either an oily or slightly waxy type. The different solvent carrier flash points offer the possibility to select the dewatering fluid to suit the working environment. Dewatering fluids can be successfully used on components contaminated with water based cutting fluids or cleaners, and rapidly split off the water phase leaving an excellent preventive film.

WATER DILUTABLE CONCENTRATES

PETROFER's water extendable ISOTECT OW products, when compared to mineral oil, and solvent based corrosion prevention products, provide a high level of operational safety due to their water content. This function is especially desirable when applying rust preventives in areas such as foundries where fire risk should be minimised. They provide excellent internal storage rust prevention.

WATER SOLUBLE ADDITIVES

Often cleaning baths or water based coolants require additional corrosion prevention performance. The AQUAPLUS, ISOADD and ISOTECT portfolio offers a range of special additives designed to achieve increased corrosion resistance. Some of the products can also be used stand-alone, for example in cooling water circuits or cooling and rust prevention of die-cast components.

*“modern formulations and
reliable corrosion prevention”*

YOUR BENEFITS

REDUCTION OF TOTAL COST OF OWNERSHIP

- long life fluids
- extensive portfolio: products for all metals, alloys and application methods are available
- simple removal of the corrosion prevention layer with FEROCLEAN industrial cleaners

HIGHER PROCESS EFFICIENCY AND RELIABILITY

- excellent corrosion prevention properties across all the ranges
- excellent creeping properties to cover complex geometries of components
- good penetration properties
- rust resistant protective film for extreme temperature fluctuations
- easy application, for example in dipping, brushing and low pressure spraying processes
- effective water displacement on wet surfaces (Dewatering series)

IMPROVEMENT OF THE ENVIRONMENTAL BALANCE

- products free of heavy metals
- many VOC free products
- no organic chlorine compounds used
- high flash point products available

APPLICATION EXPERTISE

INDUSTRIAL SECTORS USING OUR PRODUCTS

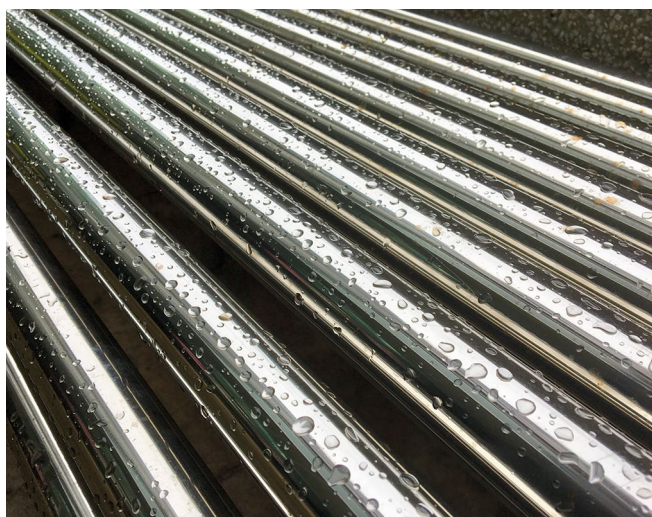
- aerospace, defence and marine
- agricultural and construction equipment with supply chain
- automotive and components supply chain
- casting and forging
- consumer, electronics, white and brown goods
- heat treatment
- machine tool OEM's
- medical equipment
- paper/tissue/board production and conversion
- power generation
- pressings, extrusion, hydroforming and fasteners
- public transportation

APPLICATION EXAMPLES

ISOTECT WSD and OSD types are used where dewatering is required prior to packaging and shipping in bags. ISOTECT OW types were used for different applications like quenching of aluminium after casting or intermediate short term protection where machined parts are stored prior to the next process. ISOTECT OM types were used for dry parts when a mineral oil based corrosion prevention is needed for storage of finely machined components.

HIGHLIGHT PROJECT

A bearing company used an old fashioned product for many years, but this was withdrawn from the market due to the barium and VOC chemistry. PETROFER developed an alternative for them within a few weeks that surpassed the previous product performance levels.



Pipes before application of a dewatering fluid



Parts protected with water soluble rust preventive ready for packaging

PETROFER is a system supplier and offers perfectly coordinated chemistry along the entire production process route.

1

HEAT TREATMENT

2

DIE-CASTING AND FORGING

3

FIRE RESISTANT HYDRAULIC FLUIDS

4

METALWORKING FLUIDS

5

METAL FORMING LUBRICANTS

6

INDUSTRIAL LUBRICANTS

7

INDUSTRIAL CLEANERS

8

RUST PREVENTATIVES

9

PAPER CHEMICALS

10

SUPPORT

For further information please visit or contact through our website
www.petrofer.com



PETROFER
industrial oils and chemicals