

Rustilo™ Aqua 726

In-process aqueous corrosion preventive

Description

Castrol Rustilo™ Aqua 726 is a fully synthetic, water-based corrosion preventive, supplied as a concentrate for dilution with water prior to use. The product, after the evaporation of the water phase, leaves dry, almost imperceptible films. Rustilo 726 Aqua is formulated without boron and formaldehyde releasing biocides.

Application

Rustilo 726 Aqua is an inter-operational corrosion preventive providing short term protection with minimal surface contamination on metal parts and components, while stored or stacked indoors until assembly.

Rustilo 726 Aqua can be applied to both dry and wet ferrous parts by immersion, spray or flow coat. It can be used on non-ferrous parts if they are dried after application.

Typical fields of use are:

- rinse and corrosion preventive in multi-stage washers
- additive in alkaline cleaners and metalworking fluids for additional protection
- light cleaner in one stage washers
- corrosion inhibitor for aqueous leakage testing of gears, pumps and tanks
- corrosion inhibitor for cooling water cycles

Conditions of Use

Concentration Range: 1 - 10%

Temperature Range: ambient - 60 °C (in spray applications min. 40 °C)

Optimum conditions of use are dependent on the detailed application requirements. If required, please consult a Castrol representative for advice.

Advantages

- Offers short term protection with minimal surface contamination
- Versatile product that can be used in multi applications
- Economical product - can be used at different dilutions depending on the length of protection needed
- Compatible with ferrous substrates, aluminum and yellow metals
- Residual film does not hinder adhesion of most paint systems or other subsequent protective coatings

Typical Characteristics

| Description | Test Method | Units | Value |
|--|--------------------|-------|----------------------------|
| Concentrate | | | |
| Appearance | Visual | - | Clear, light yellow liquid |
| Density @ 20 °C | ASTM D1298 | g/ml | 1.04 |
| Dilution | | | |
| pH (4% dilution in water 20°dH) | ASTM E70/97 | - | 9.4 |
| Cast Iron Corrosion Protection (4% dilution in water 20 °dH) | DIN 51 360/2 | Grade | 0 |
| Corrosion Protection (5% Dilution) | (*) Indoor Storage | Month | up to 2 |
| Drying Time @ 20 °C | In-house | min | 30 |

Subject to usual manufacturing tolerances.

Concentration Control

CONCENTRATION ANALYSIS BY TITRATION:

1. Pipette 10 ml bath solution in a 250 ml Erlenmeyer flask
2. Fill up with 50 ml deionised water
3. Add 2 drops of methyl orange indicator solution
4. Titrate with hydrochloric acid (c = 0,1 mol/l) until colour changes from yellow to red
5. Concentration = required ml hydrochloric acid * **factor 0,39**

Additional Information

The claims on film thickness and coverage are average values. These are valid for smooth surfaces with good drain-off characteristics and simple geometries without holes or recesses.

Average drying time is the time until the majority of the water is evaporated at ambient temperature and a relative humidity of 60 – 70%. The full corrosion protection will just be provided when the water is completely evaporated. Dilutions of Rustilo 726 Aqua may be heated to facilitate drying.

(*) "Indoor storage" describes the storage of ferrous components in closed store-rooms having a relative humidity of 60%. Increased protection times could be achieved by treating finished surfaces or storing the parts in a sealed pack.

Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer to the product safety data sheet.

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