



Product Data

Rustilo 4175

Aqueous synthetic corrosion preventive

Description

Castrol Rustilo® 4175 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 a dry, almost imperceptible film.

Application

Rustilo 4175 is an inter-operational corrosion preventive providing short term temporary protection on metal parts and components, while stored or stacked indoors until assembly.

The product can be applied to both dry and wet ferrous parts by immersion, spray or flow coat.

Rustilo 4175 can be used on non-ferrous parts, except aluminum, if they are dried after application.

Rustilo 4175 can also be used as a rinse and corrosion preventive in multi-stage washers and or as an additive in alkaline cleaners and metalworking fluids for additional protection or as a light cleaner in one stage washers.

Conditions of Use

Concentration: 1 - 10%

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

Advantages

- Formulated without hydrocarbon solvents, complies with EC Solvent Directive (1999/13/EC).
- Offers short term protection with minimal surface contamination
- Versatile product that can be used in multiple applications
- Economical product - can be used at different dilutions depending on the length of protection needed
- If required, protective films of Rustilo 4175 can easily be removed by a mild alkaline process cleaner

Typical Characteristics

Description	Test Method	Unit	Value
Concentrate			
Appearance	Visual	-	Clear to slightly hazy, yellow fluid
Density @ 15°C	ASTM D1298	g/ml	1.08
Dilution			
Appearance	Visual	-	Clear light yellow solution
pH (5% solution)	ASTM E70/97	-	9.1
Film type	Visual	-	Imperceptible
Film Thickness (10% Dilution)	In-house	µm	0.4
Coverage (10% Dilution)	In-house	m²/L	87
Corrosion Protection (10% Dilution)	(*) Indoor Storage	Month	Up to 9
	(**) Outdoor Storage	Month	Not recommended

Subject to usual manufacturing tolerances.

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.

The full corrosion protection will be provided when the water is completely evaporated. Dilutions of Rustilo 4175 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.

(**) "Outdoor storage" describes open storage, which assumes primary protection from the elements by tarpaulin or other form of cover.

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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