Product Data

Rustilo™ DW 310

Dewatering corrosion preventive

Description

Castrol Rustilo™ DW 310 is a high quality solvent deposited corrosion preventive with excellent dewatering properties. The solvent, after evaporation, leaves a soft greasy protective film on the components.

Application

Rustilo DW 310 leaves a thin, soft greasy film which provides effective medium term protection against corrosion during intermediate storage or transportation of machine tools and components, such as vehicle parts and sub-assemblies, fasteners, steel pressings and extruded sections, water-quenched components, etc.

Rustilo DW 310 effectively removes water from components subsequent to electroplating processes, after machining using soluble cutting fluids, or parts that have been washed.
Although Rustilo DW 310 can be applied by brushing or spraying, its dewatering action is most effective if the articles to be protected can be immersed in a dip tank.

Advantages

- Based on low aromatic solvents
- Formulated without Barium - this may help to fulfil aspects of legislative requirements and waste treatment requirements that specify that these chemicals are excluded
- Stable film characteristics reduce run-off loss and thus increase process reliability
- Film resistant to rough handling of products
- Excellent coverage to provide significant cost savings
- High stability against acidic and alkaline environments
- Excellent water displacing and penetrating properties which avoids water entrapment and corrosion under film
- Low evaporation rate of solvent results in long bath lifetimes and low evaporation losses
- If required protective films of Rustilo DW 310 can be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

Typical Characteristics

Description	Test Method	Units	Value
Appearance	Visual	-	Clear brown liquid
Density @ 15 °C	ASTM D4052	g/ml	0.82
Flash Point, COC	ASTM D92	°C	70
Viscosity @ 40 °C	IP 71	mm²/s	2.8
Film Type	-	-	Greasy
Film Thickness	Internal	µm	2.5 - 4.5
Corrosion Protetion	(*) Indoor Storage	Month	10
	(**) Outdoor Storage	Month	5
Drying time	Internal	min	75

Subject to usual manufacturing tolerances.

Additional Information

The claims on film thickness and consumption 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 solvent is evaporated at ambient temperature and a relative humidity of 60 – 70%. The full corrosion protection will just be provided when the solvent is completely evaporated.

(*) "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 fully dried 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.

Product must be used in a liquid form. Influence of temperature may cause some cloudiness, which is reversible post mixing and homogenizing and does not have an impact on product quality or corrosion protection performance in most instances.

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

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