



Rustilo™ DW 310 HF

Dewatering Corrosion Preventive

Description

Castrol Rustilo™ DW 310 HF (previously called SafeCoat™ DW 31 VC) is a high quality corrosion preventive with dewatering properties, specifically formulated based on a low volatile solvent in order to comply with the today's VOC-legislation.

The solvent, after evaporation, leaves a thin greasy protective film.

Application

Rustilo DW 310 HF rapidly removes water from components subsequent to electroplating processes, after machining using soluble cutting fluids, or parts that have been washed.

The thin residual film provides effective medium term protection against corrosion during intermediate storage or transportation of parts and components.

Although Rustilo DW 310 HF 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

- Good operator acceptance as based on a low odour de-aromatised solvent.
- VOC Solvent Directive (1999/13/EC): Solvent is not classified as a volatile organic compound (VOC) at 20 °C.
- Heavy metals free, (example Barium) which may help you to fulfil aspects of legislative requirements and waste treatment requirements that specify that these chemicals are excluded.
- Contains a corrosion inhibitor package suitable for moderate conditions which provides reliable protection of components.
- Very good water displacing and penetrating properties
- High stability against acidic and alkaline contaminations which enables a long bath-lifetime to help reducing operational cost.
- Suppresses fingerprints to protect handled parts from fingerprint corrosion.
- If required protective films of Rustilo DW 310 HF can be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

Typical Characteristics

Description	Test Method	Unit	Value
Appearance	Visual	-	Clear, brown liquid
Density @ 15°C	ASTM D4052 / ISO 12185	g/ml	0.83
Viscosity @ 40°C	ASTM D446 / ISO 3105	mm ² /s	4.7
Flash Point - closed cup method	ASTM D93 / ISO 2719	°C	> 90
Film Type	-	-	Greasy
Total Film Forming Content	Calculated	%	19
Film Thickness	-	µm	1.5
Corrosion Protection	(*) Indoor Storage	month	9 - 12
	(**) Outdoor Storage	month	4 - 6

Subject to usual manufacturing tolerances.

User Advice

The high flash point solvents of the Low VOC Solvent based range have been chosen to support compliance with the EC Solvent Directive (1999/13/EC).

Please note, that their low volatility has an influence on the film forming speed and extends the drying time compared to conventional non-VOC compliant products. Further, due to the higher viscosity and density of the base fluids, the dewatering properties might be slightly decreased.

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.

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 when treating finished surfaces or store 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.

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

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

This product was previously called SafeCoat DW 31 VC. The name was changed in 2015.

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