

## Rustilo DWX 31

Dewatering corrosion preventive

### Description

Castrol Rustilo™ DWX 31 is a powerful solvent deposited corrosion preventive with excellent dewatering properties. The product, following evaporation of the solvent, leaves a soft greasy protective film.

### Application

Rustilo DWX 31 rapidly removes water from components subsequent to metal treatment processes such as electroplating processes, after machining using soluble cutting fluids or parts that have been washed. It is suitable for use on cylinder liners, gears, spiral springs, simple hand tools, steel rods and bars etc.

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

Although Rustilo DWX 31 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 de-aromatised hydrocarbon solvent - mild odour increases operator acceptance
- Free from heavy metals, such as Barium - improves environmental profile and helps reducing waste disposal cost
- Superior film retention and fingerprint suppressant characteristics - minimises risk of corrosion
- Excellent water displacing and penetrating properties and high stability against acidic and alkaline contaminations - enables a long bath-lifetime which helps reducing operational cost

### Typical Characteristics

Name	Test Method	Unit	Value
Appearance	Visual	-	Clear, brown fluid
Density @ 15 °C	ASTM D 1298	kg/m <sup>3</sup>	800
Flash Point	ASTM D 56	°C	> 38
Film Type	-	-	Greasy
Total Film Forming Content	-	%	19
Film Thickness	-	µm	2 - 4
Consumption	-	kg/100 m <sup>2</sup>	1.0 - 1.2
Corrosion Protection	Indoor Storage	month	12
	Outdoor Storage	month	6
Drying Time @ 20 °C	-	min	60

## 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 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.
- Influence of temperature may cause some cloudiness or thickening, which is reversible and doesn't have an impact on product quality.
- If required protective films of Rustilo DWX 31 can easily be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

## Storage

All packages should be stored under cover in a ventilated area at ambient temperature. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Rustilo DWX 31 should not be exposed to hot sun or cold temperature conditions < 9 °C.

Rustilo DWX 31

10 Oct 2013

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

[www.castrol.com/industrial](http://www.castrol.com/industrial)