

Rustilo DWX 21

Dewatering corrosion preventive

Description

Castrol Rustilo™ DWX 21 is a powerful solvent deposited corrosion preventive with excellent dewatering properties. The solvent, after evaporation, leaves an oily protective film.

Application

Rustilo DWX 21 rapidly removes water from components subsequent to electroplating processes, after machining using soluble cutting fluids, or parts that have been washed. The residual oily film provides effective short-term protection against corrosion on parts and components during intermediate storage or transportation.

Although Rustilo DWX 21 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 a 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
- Stable, fingerprint suppressant film 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 ³	813
Flash Point	ASTM D 56	°C	> 38
Film Type	-	-	Oily
Total Film Forming Content	-	%	30
Film Thickness	-	µm	3 - 4
Consumption	-	kg/100m ²	1.0 - 1.2
Corrosion Protection	Indoor Storage	month	3
	Outdoor Storage	month	1
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, which is reversible and doesn't have an impact on product quality.
- If required protective films of Rustilo DWX 21 can easily be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

Rustilo DWX 21

22 Oct 2013

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Rustilo™ DWX 22

Dewatering corrosion preventive

Description

Castrol Rustilo™ DWX 22 is a powerful solvent deposited corrosion preventive with dewatering properties. The product, after evaporation of the solvent, leaves a soft greasy protective film.

Application

Rustilo DWX 22 gives medium term corrosion protection. It is ideal for protection of machine tools and components prior to storage or transportation.

The product also shows water displacing properties.

Although Rustilo DWX 22 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

- Contains a powerful corrosion inhibitor package suitable for moderate conditions which provides reliable protection of components.
- Good water displacement and penetrating properties which avoids water entrapment and corrosion under film.
- Good stability against acidic and alkaline contaminations which enables a long bath-lifetime to help reduce operational cost.
- Good mechanical film strength and finger print suppressing properties - highly finished work is not damaged by handling which improves component quality.
- If required, protective films of Rustilo DWX 22 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 fluid
Density @ 15 °C	ASTM D 4052	g/ml	0.82
Flash Point, PM	ASTM D 93	°C	>39
Viscosity @ 20°C	ASTM D 445	mm ² /s	5.1
Film Type	Visual	-	soft greasy
Total Film Forming Content	Calculated	%	30
Film Thickness	In-house	µm	5
Coverage	In-house	m ² /l	50
Drying Time @ 20°C	In-house	min	60
Corrosion Protection	(*) Indoor Storage	month	10 - 12
	(**) Outdoor Storage	month	4 - 6

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.

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.

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 10°C and 30°C.

Product must be used in a liquid form. Influence of temperature may cause cloudiness or thickening, which is reversible 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.

Rustilo™ DWX 22

07 Oct 2015

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Product Data

Castrol Rustilo DWX 30

Dewatering corrosion preventive

Description

Castrol Rustilo™ DWX 30 is a powerful solvent deposited corrosion preventive with excellent dewatering properties. The solvent, after evaporation, leaves an ultra-thin greasy protective film.

Application

Rustilo DWX 30 rapidly removes water from components subsequent to electroplating processes, after machining using soluble cutting fluids, or parts that have been washed. The very thin residual film provides effective medium term protection against corrosion during intermediate storage or transportation. Rustilo DWX 30 can also be used as a lubricant for mild press working, where corrosion protection without further treatment is required.

Although Rustilo DWX 30 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

- Forms an even film.
- Fingerprint suppressant.
- Excellent water displacing and penetrating properties.
- High stability against acidic and alkaline contaminations.
- Long bath-lifetimes possible.
- Economical in application.
- Thin film does not interfere with air gauging equipment.

Characteristics

	Unit	Test Method	Value
Appearance	-	Visual	Light brown fluid
Density @ 15° C	kg/m ³	DIN 51 757	800
Flash Point	°C	ASTM D 93	37
Film Type	-	-	Ultra-thin, greasy
Total Film Forming Content	%	-	8
Film Thickness	µm	-	0.6 – 1.0
Coverage	m ² /Litre	-	100
Corrosion Protection, Indoor Storage	Month	—	9
Corrosion Protection, Outdoor Storage*	Month	—	3
Drying Time @ 20° C	min	-	30

*(assumes primary protection from the elements by tarpaulin or other form of cover)

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www.castrol.com/industrial



Product Data

Additional Information

Rustilo DWX 30 is considered hazardous according to the criteria of NOHSC. It may cause lung damage if swallowed.

Rustilo DWX 30 is a flammable good according to the criteria of AS 1940 for storage and handling purposes. Special care should be taken when spraying as misted product greatly increases the risk of fire. Use only in a well ventilated area away from sources of ignition including static discharge e.g. when removing clothing.

If required protective films of Rustilo DWX 30 can easily be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

For further information, please refer to separate Material Safety Data Sheet available on request.

Spillage: **SMALL - 20 LITRES OR LESS**
Soak up on Castrol Diatomaceous Earth or similar inert oil absorbent. Arrange for disposal through an approved facility.

LARGE - GREATER THAN 20 LITRES
Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labeled container. Do not dilute material but contain. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Disposal: Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

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Rustilo DWX 32

Dewatering corrosion preventive

Description

Castrol Rustilo™ DWX 32 is a powerful solvent deposited corrosion preventive with good dewatering properties. The product, following evaporation of the solvent, leaves a soft greasy protective film.

Application

Rustilo DWX 32 is a medium to long term protective for use in severe conditions where a high degree of protection is required. It is ideal for protection of machine tools and components prior to storage or transportation. The product also shows good water displacing properties.

Although Rustilo DWX 32 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.
- Contains a powerful corrosion inhibitor package suitable for severe conditions - provides reliable protection of components.
- Good water displacement and penetrating properties and high stability against acidic and alkaline contaminations - enables a long bath-lifetime which helps reducing operational cost.
- Good mechanical film strength and finger print suppressing properties - highly finished work not damaged by handling improves product quality.

Typical Characteristics

Name	Test Method	Unit	Value
Appearance	Visual	-	Clear, brown fluid
Density @ 15 °C	ASTM D 1298	kg/m ³	817
Flash Point	ASTM D 56	°C	> 38
Film Type	-	-	Firm, greasy
Total Film Forming Content	-	%	32
Film Thickness	-	µm	4 - 6
Consumption	-	kg/100 m ²	1.2 - 1.6
Corrosion Protection	Indoor Storage	month	18
	Outdoor Storage	month	9
Drying Time @ 20 °C	-	min	90

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 32 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 32 should not be exposed to hot sun or cold temperature conditions < 9 °C.

Rustilo DWX 32

17 Oct 2013

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