

Product Data

Castrol Aquasafe 30

High performance aqueous corrosion preventive

Description

Castrol Aquasafe™ 30 is a new technology, high performance, environmentally friendly water-based corrosion preventive formulated on a selected blend of corrosion inhibitors. Aquasafe 30 deposits an almost imperceptible light, soft greasy film, which is usually just provided by solvent-based products. Aquasafe 30 does not contain heavy metals, such as barium.

Application

- Aquasafe 30 is designed to be used as supplied (ready-to-use).
- This product is intended for dip, low pressure spray and flood applications.
- Recommended temperature of use: 20 – 30 °C.

Advantages

- Water-based corrosion preventive - environmentally friendly, provides a safer working environment.
- Solvent-free formulation -
 - Eliminates fire hazard.
 - Potential for reduced insurance premiums.
 - Not regulated by VOC legislation.
 - Non-ozone depleting.
 - Assists in achieving ISO 14001.
- Deposits very thin protective film.
 - Safe and easy handling of components.
 - Provides excellent ferrous corrosion protection.
- Low foam - suitable for dip, flood and spray applications.
- Low drying time - minimum impact on process/production times.

Typical Characteristics

	Unit	Test Method	Value
Appearance	-	Visual	Clear to slightly hazy micro-emulsion
Relative Density @ 15 °C	kg/m ³	DIN 51 757	996
pH (Typical)	-	-	9,3
Film Type	-	-	Imperceptible soft greasy film
Film Thickness (Typical)	µm	-	0,9
Corrosion Protection	Month	Indoor storage	9
	Month	Outdoor storage	Not recommended
Drying Time (95% water loss at 20°C)	Min	-	30
Coverage	m ² /litre	-	80

User Advice

- Before treatment with Aquasafe 30 the parts surface should be free of contaminations, such as oils, greases and particles to ensure its best performance.
- A very important aspect of water-based corrosion preventives is the drying time; once the product has been applied onto the components. It must be allowed to dry (> 30 minutes) prior to packaging of treated components in order to ensure maximum corrosion protection. Using supportive drying equipment, i.e. hot air blower, could further reduce drying time.
- Regularly check the pH of the product and ensure that the pH is maintained between 8.7 - 9.5.
- Once the product is introduced into a holding tank pending application, it is advised to keep this tank covered to reduce evaporation losses and reduction of deposit formations onto the application equipment. The application tank should ideally receive agitation / stirring to maintain product dispersion.
- Concentration of the film forming content of Aquasafe 30 is determined by the non-volatile residues (total solids)
- In order to minimise the risk of any stability or corrosion issues caused by increasing levels of water hardness and corrosive inorganic salts (i.e. chloride) it is recommended to top-up evaporation losses by deionised water.

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 water is evaporated at ambient temperature and a relative humidity of 60 – 70%. The full corrosion protection will just be provided when the water phase 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.
- If required protective films of Aquasafe 30 can easily be removed by using a petroleum solvent or alkaline process cleaner, all available from Castrol.

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Castrol Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, UK
www.castrol.com/industrial

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9 October 2008 Version 1