

Techniclean™ S-RP

Soluble oil based emulsion cleaner

Description

Castrol Techniclean™ S-RP is a mildly alkaline emulsion cleaner based on a low viscosity mineral oil, containing film forming additives and coupling agents. The product is supplied as a concentrate for dilution with water prior to use.

Techniclean S-RP is formulated without boron, formaldehyde releasing agents and monoethanolamine (MEA).

Application

Techniclean S-RP is specifically designed to combine the benefits of cleaning and excellent interoperational corrosion protection, suitable for use in a wide range of industrial spray and flood wash machines.

Techniclean S-RP is specifically recommended for the cleaning of ferrous metals. After evaporation of the water phase it leaves an ultra-thin oily film on the metal surface offering excellent short-term corrosion protection.

Techniclean S-RP removes soluble and light neat cutting oils, lubrication oils, swarf and general dirt.

Conditions of Use

Concentration Range:	up to 10%
Temperature Range (of dilution):	40 - 60 °C
Spray Pressure (of dilution):	up to 20 bar

Optimum conditions of use are depending on the detailed application requirements and the amount and nature of the soil being removed.

Advantages

- Formulated without boron, formaldehyde releasing agents and monoethanolamine (MEA) which may help to fulfill aspects of legislative and waste treatment requirements that specify that these chemicals are excluded
- Leaves an oily, high performing corrosion preventive film on the metal surface which helps to minimise scrap rate associated with corrosion
- Excellent biostability and good hard water stability enables long bath-life to support the reduction of maintenance and disposal cost
- Economical - low foaming above 40 °C which helps to lower energy cost
- Suitable for inter-operational and final wash of multi-metal components which offers possible product and process consolidation
- If required protective films of Techniclean S-RP can be removed by using an alkaline process cleaner, also available from Castrol

Typical Characteristics

Description	Test Method	Unit	Value
Concentrate			
Appearance	Visual	-	Transparent to slightly hazy fluid
Colour	Visual	-	Yellow - brown
Density @ 20 °C	ASTM D1298	g/ml	0.9
Emulsion			
Appearance	Visual	-	Milky
pH (5% in 10 °dH water)	ASTM E70/97	-	9.7
Refractometer Factor	-	-	0.9
Corrosion Protection (10% in DI water)	(*) Indoor Storage	Month	up to 12

Subject to usual manufacturing tolerances.

User Advice

- Make up an emulsion by adding the Techniclean S-RP to agitated water (preferably heated)
- Being a semi-stable emulsion it is beneficial to keep the bath in constant movement, i.e. by a circulation pump, stirrer or continuous component throughput
- Check concentration, pH and bath level regularly, especially if used hot
- To reduce the risk of stability and corrosion issues caused by increasing contamination of water hardness and corrosive salts (e.g. chloride) it is recommended to fill up evaporation losses with deionised water
- The protective film must be completely dried before packaging

Additional Information

- The full corrosion protection will be provided when the water is completely evaporated. Dilutions of Techniclean S-RP may be heated to facilitate drying
- (*) "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 parts in a sealed pack
- Influence of temperature may cause some cloudiness, which is reversible and doesn't have an impact on product quality

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.

For more details, please refer the Safety Data sheet for this product.

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