

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.

Application

Techniclean S-RP is specifically designed to combine the benefits of cleaning and superior corrosion protection, suitable for use in a wide range of industrial spray and flood wash machines. The product leaves an ultra thin, oily film on metal surfaces after the evaporation of the water phase. Techniclean S-RP removes soluble and light neat cutting oils, lubrication oils, swarf and general dirt. It also rejects a certain amount of tramp oil that allows skimming off the oil while standing to provide a longer bath life. Techniclean S-RP is suitable for the cleaning of ferrous metals, where it leaves an oily film on the metal surface delivering short term rust protection.

Conditions of Use

Concentration Range:	up to 10%
Temperature Range:	40 - 70 °C
Spray Pressure:	up to 20 bar / 300 psi

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

Advantages

- Leaves an oily, superior performing corrosion preventive film on the metal surface – minimises scrap rate which improves productivity
- Excellent biostability supports long bath-life – reduces maintenance and disposal cost
- Low foaming above 40°C – economical, lowers energy cost
- Suitable for inter-operational and final wash of multi-metal components – enables possible product and process consolidation

Typical Characteristics

Name	Method	Units	P05034LDD
Appearance	Visual	-	Yellow - brown, hazy fluid
Density @ 20 °C	DIN 51 757	kg/m ³	870
Viscosity @ 20 °C	DIN 51 562	mm ² /s	28
pH (5% emulsion in DI-water)	ASTM E 70	-	9.9
Refractometer factor	-	-	1
Corrosion Protection (10% emulsion in DI-water)	Indoor Storage	month	up to 12

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

- "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 packs
- Influence of temperature may cause some cloudiness, which is reversible and doesn't have an impact on product quality
- If required protective films of Techniclean S-RP 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. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing condition

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