



Techniclean S 5001

Aqueous alkaline process cleaner

Description

Castrol Techniclean™ S 5001 is an aqueous, mild alkaline industrial cleaner containing corrosion inhibitors and biodegradable surfactants. It is free from nitrites and inorganic salts such as phosphates and silicates.

Application

Techniclean S 5001 can be used in all types of industrial spray washing equipment, including intensive flood washers. The product can be used to remove soluble oils, light-medium duty neat cutting or forming oils, lubrication oils, soft film corrosion preventatives, swarf and general dirt.

Techniclean S 5001 is suitable for use on ferrous and many non-ferrous substrates. It is recommended to first check compatibility with non-ferrous substrates.

Conditions of Use

Concentration range: 3 - 5%

Temperature range: up to 160 °F (71 °C)

Advantages

- Inorganic salt free to give a slight, almost invisible film than can provide inter-operational corrosion protection
- Low foaming characteristics minimises the risk of downtimes associated with foam related washer stoppages in spray applications
- Good in-process anti-corrosion properties to protect cleaning equipment and components
- Rejects tramp oil to the surface of the fluid for easy removal to extend bath life

Typical Characteristics

Description	Test Method	Unit	Value
Appearance of Concentrate	Visual	-	Clear, light yellow to amber liquid
Density @ 15 °C	ASTM D4052	g/ml	1.02
pH of dilution (5% in DI-Water)	ASTM E70/97	-	10.3
Cast Iron Corrosion @ 2%	IP 287	-	No stains

Subject to usual manufacturing tolerances.

Concentration Control

By titration:

1. Place (pipette) 50 ml sample of Techniclean S 5001 solution into a flask or beaker
2. Titrate 1.0 N sulfuric acid from a burette until reaching 4.6 on the pH meter
3. The concentration of the Techniclean S 5001 solution in % (v/v) can be calculated by multiplying the volume of 1.0 N sulfuric acid in ml by the concentration factor
4. Prior to running tests on field samples, follow the above method using a sample of known concentration to obtain the concentration factor

Concentration factor =
$$\frac{\% \text{ known concentration}}{\text{ml 1.0 N sulfuric acid needed to reach the end point.}}$$

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 product safety data sheet.

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