



Techniclean™ MP 2

Multi-purpose process cleaner

Description

Castrol Techniclean™ MP 2 (previously called CareClean™ MP2) is an aqueous, mildly alkaline industrial multi-purpose cleaner containing corrosion inhibitors and biodegradable surfactants. The product is designed to be user-friendly and environmentally responsible. It is free of inorganic salts.

Application

Techniclean MP 2 is a multi-purpose process cleaner for precision cleaning of most metals, even sensitive aluminium alloys. It cleans to the most demanding specifications in a wide range of modern equipment, which includes spray and intensive flood wash as well as all types of dip and ultrasonic applications.

Techniclean MP 2 effectively removes soluble oils, light duty neat cutting or forming oils, lubrication oils, soft film corrosion preventives, swarf and general dirt.

Conditions of Use

	Spray	Flood Wash	Dip / Ultrasonic
Concentration Range:	2-5%	2-5%	2-5%
Temperature Range:	50-80 °C 122-176°F	50-80°C 122-176 °F	40-70°C 104-158°F
Spray Pressure:	up to 3 bar / 50 psi	up to 12 bar / 200 psi	n/a

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

Advantages

- Leaves a temporary corrosion preventive film on the metal surface – minimises scrap rate which improves productivity
- Emulsified oil separates on standing and can be skimmed off in order to increase bath-life – reduces maintenance and disposal cost
- Free of inorganic salts, no rinsing required – improves parts cleanliness, enables process rationalisation
- Moderate pH-level - improves environment for the workforce
- Versatile, can be used in various applications on most metals and is suitable in hard and soft water – enables possible product consolidation

Typical Characteristics

Name	Method	Units	Techniclean MP 2
Appearance	CN-TM-007	-	Clear yellow liquid
Density @ 15°C	CN-TM-084	g/cm3	1.05 - 1.07
pH (5% solution)	CN-TM-069	-	8.6 - 9.0

Concentration Control

By Titration:

1. Place (pipette) 50 ml sample of Techniclean MP 2 solution into a flask or beaker.
2. Titrate 1.0N sulfuric acid from a burette until reaching 4.6 on the pH meter.
3. The concentration of the Techniclean MP 2 solution in % (v/v) can be calculated by multiplying the volume of 1.0N 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 = % known concentration/ml acid needed to reach the end point.

With Hach kit:

The table below reflects values obtained using a Hach alkalinity test kit (Cat. No 23145). For best results, follow the instructions for use provided in the kit.

Concentration %	1	2	3	4	5
Drops	3	5	7	10	13

Refractometer Factor: 2.1

To calculate the concentration of the diluted fluid, multiply the Refractometer reading by the factor to come up with the in-use concentration.

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.

This product was previously called CareClean MP2. The name was changed in 2015.

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