



Techniclean™ MP Flex

Heavy duty, multi-purpose alkaline cleaner

Description

Castrol Techniclean™ MP Flex (previously called Flexiclean™) is a heavy duty alkaline cleaner that effectively breaks loose hardened deposits of chips and swarf, and readily removes oily residues, gummy deposits, grit and dirt from interior and exterior machine surfaces. Techniclean MP Flex is particularly well suited for coolant system cleanouts, yet it can be used in immersion, general maintenance and spray wash applications.

Application

Central system cleanouts: 4% concentration, depending on soil load

Floor scrubbers: 1 - 5% concentration, depending on soil load

Immersion: 2 - 10% concentration; ambient to 180°F

Manual operations: 5 - 10% concentration, depending on soil load

Spray: 1 - 4% concentration; ambient to 180°F (82°C)

Advantages

- Splits oils, rather than emulsify them, to provide easy skimming and long bath life.
- Provides short-term corrosion protection of metal surfaces between cleanout and recharge.
- Low foaming to preclude pump cavitation.
- Produces a fast-drying, non-tacky residue to prevent sticking when used in floor scrubbing equipment and manual operations.
- Holds USDA C1 status as a cleaner for use in inedible product processing areas, non-processing areas, and/or exterior areas of official establishments operating under the Federal meat, poultry, shell egg grading and egg products inspection programs

Typical Characteristics

	Test Method	Unit	Techniclean MP Flex
Appearance of Concentrate	CN-TM-007	-	Yellow to amber fluid
pH of Solution @ 3%	CN-TM-069	-	12.0 - 12.6
Specific Gravity @ 15°C	CN-TM-084	g/cm ³	1.15 - 1.17
Nitrites	-	-	None
Phosphates	-	-	None
Silicates	-	-	Yes

Subject to usual manufacturing tolerances

Concentration Control

By titration:

1. Place (pipette) 50 ml sample of Techniclean MP Flex 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 MP Flex 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 = % 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 this kit.

Concentration %	1	2	3	4	5
Drops	5	9	12	15	19

Refractometer Factor: 2.9

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

User Advice

Techniclean MP Flex can be safely used on ferrous metals. Consult your Castrol Sales Engineer for questions regarding compatibility.

This product was previously called Flexiclean. The name was changed in 2015.

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