



Castrol Techniclean 3659

Alkaline Spray Cleaner

Description

Castrol Techniclean™ 3659 is an oil-rejecting cleaner formulated for use on turbo and spray washers. The Techniclean 3659 product is a medium to heavy duty cleaner which provides excellent detergency while providing superior in-process corrosion protection. Designed to be silicate-free, this product will not interfere with subsequent painting operations.

Application

Techniclean 3659 effectively removes a variety of medium to heavy soils such as forming and lapping compounds, greases, and rust inhibiting waxes from ferrous parts. It is suitable for use in a wide range of modern cleaning equipment, which includes spray and intensive flood wash as well as all types of dip and ultrasonic applications.

Conditions of Use

Spray: 3 - 10% concentration; 130° - 180° F (54° - 82° C)

Ultrasonic: 3 - 10% concentration; 130° - 180° F (54° - 82° C)

Optimum conditions of use are depending on the detailed application requirements and the amount and nature of the soil being removed. Ideal foam control will occur at temperatures greater than 130 °F.

Advantages

- High level of rust inhibitors provide additional in-process corrosion protection
- Silicate free to allow for superior paint adhesion in downstream processes
- Low surface tension improves surface wettability

Typical Physical Characteristics

| | Unit | Test Method | Value |
|---------------------------|--------------|-------------|---------------------|
| Appearance of Concentrate | - | Visual | Straw-colored fluid |
| pH of Concentrate | - | CN-TM-069 | 11 – 12 |
| pH of Solution | @ 3% | CN-TM-069 | 10.9 – 11.4 |
| Specific Gravity | @60°F (16°C) | Cn-TM-086 | 1.05 – 1.07 |
| Bulk Density | Lbs/gal | - | 8.8 |
| Nitrites | - | - | None |
| Phosphates | - | - | None |
| Silicates | - | - | None |

Concentration Control

By titration:

1. Place (pipette) 50 ml sample of Techniclean 3659 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 3659 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 the kit.

| | | | | | |
|-----------------|---|---|----|----|----|
| Concentration % | 1 | 2 | 3 | 4 | 5 |
| Drops | 4 | 7 | 10 | 13 | 14 |

User Advice

Techniclean 3659 is safe to use on ferrous metals. Consult your Castrol Sales Engineer for questions regarding compatibility.

Additional Information

Concentration Control

| % Concentration | Refractometer Reading |
|-----------------|-----------------------|
| 3.0 | 0.84 |
| 5.0 | 1.40 |
| 7.0 | 1.96 |
| 10.0 | 2.80 |

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