



Product Data

Castrol Kleen[®] 3625

Heavy Duty Multipurpose Alkaline Cleaner

Description

Castrol Kleen 3625 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. **Castrol Kleen 3625** is particularly well suited for coolant system cleanouts, yet it can be used in immersion, general maintenance and spray wash applications.

Performance Benefits

- 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.

Soils Removed With Castrol Kleen 3625

Adhesive compounds

 Crankcase and light gear oils

Grinding oils

Heat treat oils

 Heavy forming oils

 Heavy viscosity oils

Hydraulic oils

 Lapping compounds

 Light forming oils

Lubricating greases

Lubricating oils

 Medium viscosity cutting oils

 Polishing compounds

 Pressing compounds

 Thick soft-film rust preventives

 Thin soft-film rust preventives

Castrol Industrial Americas

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Metal Safety

Castrol Kleen 3625 can be safely used on ferrous metals. Consult your Castrol Sales Engineer for questions regarding compatibility.

Recommended Applications & Dilutions

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 (82° C)

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

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

Case History

Account: Manufacturer of earth moving equipment

Customer need: The manufacturer wanted to consolidate products by finding a versatile cleaning fluid capable of spray washing parts, cleaning central systems and general shop maintenance.

This manufacturer machines and grinds carbon and alloy steel parts from bar stock. The parts are spray washed to remove cutting fluids, drawing compounds, chips and swarf. After spray washing, the parts are dewatered and rust preventive is applied.

Previously, a powder cleaner was used for spray washing and various general purpose liquid alkaline cleaners were used for maintenance cleaning. The powder cleaner did not dissolve completely. It produced a toluene-type odor and had a brief bath life. Furthermore, it provided marginal rejection of soils that could be skimmed from the top.

A 3% concentration of **Castrol Kleen 3625** is charged in 6 - 8 grain water in spray wash tanks ranging in size from 400 - 1300 gallons. Several filtration methods including settling, skimming and coarse mesh screen are used with the spray washers. Besides the spray wash tanks, **Castrol Kleen 3625** is used for 2,500 - 30,000 gallon central system cleanouts.

Since switching to **Castrol Kleen 3625**, the manufacturer is experiencing superior cleaning of multiple soils, an increase in operator acceptance, better concentration control and low odor. The exceptional bath life of **Castrol Kleen 3625** has reduced dumps and recharges by 40%. Furthermore, the versatility of **Castrol Kleen 3625** has allowed the manufacturer to consolidate products and reduce inventory and suppliers.

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Typical Characteristics

Appearance of Concentrate: Yellow fluid
pH of Concentrate: 13.5 - 13.9
pH of Solution @ 5%: 12.2 - 12.6
Specific Gravity @ 60° F (16° C): 1.16 - 1.17
Bulk density (lbs/gal): 9.7
Nitrites: None
Phosphates: None
Silicates: Yes

Concentration Control

By titration:

1. Place (pipet) 50 ml sample of **Castrol Kleen 3625** solution into a flask or beaker.
2. Titrate 1.0 N sulfuric acid from a buret until reaching 4.6 on the pH meter.
3. The concentration of the **Castrol Kleen 3625** 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:

Add 1 vial of **Castrol Kleen 3625** solution and 1 pillow of indicator to mixing bottle. Count the drops of 1.0 N sulfuric acid required to change the color of the solution from green to pink.

Concentration % (v/v)	1	2	3	4	5
Drops	2	4	6	9	11

All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Industrial North America Inc. products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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