CHESTERTON
Global Solutions, Local Service.





346(E)

DESCALER & CHEMICAL CLEANER

PRODUCT DATA SHEET

APPLICATION AREAS

- *Concrete*
- *Construction Equipment*
- *Boilers*
- *Air Conditioner/Condensers Refrigeration Units*
- *Finishing Rolls*



Before using this product, please refer to Safety Data Sheet (SDS).

KEY FEATURES AND BENEFITS

- Biodegradable
- Non-flammable
- Concentrated, fast acting
- Dilutable up to 4 to 1
- Proprietary inhibitor package prevents attack on metal*
- Cost effective

PACKAGING

20L

208L

DIRECTIONS

Mix in earthenware or plastic container. Always add cleaner slowly to the water.

*NOTE: NEVER use on aluminum, painted enamel, stainless steel, or decorative metals

ETCHING: Mix 4 (water) to 1. Dip parts or apply to surface. Cleaner should begin to react in a few minutes. If there is no reaction as noted by the formation of bubbles, increase the concentration of the Cleaner. Rinse thoroughly with clean water. Apply corrosion protection to prevent corrosion from reoccurring on metal objects.

CLEANING MASONRY BUILDINGS: Mix 4 (water) to 1. Apply to structure with brush. Apply liberally and scrub with a stiff brush. Rinse. Avoid excessive exposure to metal trim windows and doors - rinse immediately to avoid attack.

CONDENSER SYSTEMS: If the system can be shut-down, shovel and hose-out dirt and scale. Where system cannot be shutdown, clean during operation. Use 21/2 gallons (9,5 liters) of Cleaner for each 100 gallons (378,5 liters) of water. Add Cleaner to water to recirculate through system. Let system run 2 hours. Check pH. If pH is above 1, add more cleaner to reach pH of 1. Run another 2 hours. Repeat if necessary. Drain and flush twice with clean water or bleed-off change water until pH goes to normal.

REMOVING CEMENT: Soak or spray parts until clean. Rinse with water. For heavy deposits, use Cleaner full strength. For lighter deposits, dilute Cleaner with 1 part of water. To remove rust from cement, dilute with 4 parts of water.

DESCALING BOILERS: Mechanically clean any solidly blocked water tubes before using Cleaner.

Raise water level to cover tubes. Add cleaner equal to 1/5th water capacity of system. Heat water to NOT OVER 160°F (70°C). Maintain mixture in system for 2 hours. Drain system and flush 3 times with clean water. Repeat if needed.

DESCRIPTION

Chesterton® 346(E) Descaler & Chemical Cleaner is a concentrated, acid-based liquid cleaner formulated with a metal protecting inhibitor. It is specifically designed for removing inorganic soils and coatings such as hard water deposits and rusts in a wide range of applications. Simply by changing the dilution, the product can be used in areas ranging from the boiler room to the warehouse floor and on surfaces from concrete to metal. At dilutions of 4 to 1, 346(E) Descaler & Chemical Cleaner can efficiently etch concrete surfaces to provide maximum adhesion. Similar dilutions will quickly clean rust or algae stained concrete buildings, pavements, patios, structures etc. The product quickly removes cement build-up from construction equipment, trucks, pouring forms, structural steel, and tools. In closed systems, the 346(E) can be used to remove hard water build-up, lime, scale and corrosion. Used in steam boiler tubes, the product brings boilers back to top efficiency and saves expensive fuels. Unlike other acid-based cleaners, the product will not aggressively attack base concrete or metal surfaces nor any adjacent metalwork. Rather, its high quality formulation contains a selective metal protecting acid inhibitor, so it protects these surfaces from attack.

* Up to 20 times less attack than with hydrochloric acid alone.

Typical Physical Properties

Appearance	Light Amber Liquid
Flash Point	None
Specific Gravity	1.12
Solubility in Water	Complete
Base	Hydrochloric Acid

CHESTERTON
Global Solutions, Local Service.

Chesterton International GmbH
Am Lenzenfleck 23, DE-85737 Ismaning, Germany
Tel +49-5223-96276-0
www.chesterton.com *eu-pds@chesterton.com*

© 2025 A.W. Chesterton Company
® Registered trademark owned and licensed by A.W. Chesterton Company in USA and other countries, unless otherwise noted.

Technical Data reflects results of laboratory tests and is intended to indicate general characteristics only. Since many actual application circumstances are beyond Chesterton's knowledge and/or control, the product user must determine the suitability of the products it intends to use for its particular purpose and assume all risks and liabilities in connection therewith. CHESTERTON DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.