



SURFACE PREPARATION PRODUCTS

VCI-427

PRODUCT DESCRIPTION

VCI-427 is a heavy-duty concentrate designed to remove oxide scale from parts and equipment fabricated from aluminum alloys, and as a preparation of aluminum surfaces for further processing such as anodizing, electroplating or coating. In the past, mineral acids and caustic soda proved to be of limited effectiveness when used as cleaners for aluminum substrates. Another shortcoming of using aluminum cleaners currently available on the market is the scale formation upon heating and significant environmental risks involved with those products.

VCI-427 is designed to overcome the disadvantages of conventional products. It dissolves aluminum oxide film from the surface and subsequently prevents its redepositing an oxide scale. VCI-427 is environmentally acceptable.

TYPICAL USES

- Aluminum structural elements, automotive components and castings.
- Aircraft parts and components.
- Preparation of aluminum surfaces before anodizing, painting and electroplating.

FEATURES

- Replaces mineral acids and caustic soda.
- Resists scale formation.
- Environmentally acceptable.

APPLICATION

Light cleaning: 1 part VCI-427 to 15 parts water

Normal cleaning: 1 part VCI-427 to 8 parts water

Heavy-duty cleaning: 1 part VCI-427 to 5 parts water

Time of exposure in the solution will depend on the needs for corrosion removal. VCI-427 may be rinsed off with water or Cortec® VCI-410 series to provide extra protection. For a bright finish, Cortec® VCI-426 is recommended.

PHYSICAL PROPERTIES

Appearance	Dark brown liquid
Non-volatile Content	40–45%
Weight per Gallon	11.4–11.5 lb/gal. (1.37–1.38 kg/l)

PACKAGING AND STORAGE

VCI-427 is available in 5 gallon (19 liter), 55 gallon (208 liter) drums, totes and bulk.