

# ABC 1106

LIQUID ACID BASED SCALE, RUST, WELDING SLAG AND BRAZING MATERIAL CLEANER

## ▷ PRODUCT DESCRIPTION

**ABC 1106** is an inhibited, concentrated liquid phosphoric acid cleaner and descaler formulated to remove rust, oil and laser welding scale on steel products. ABC 1106 should not be used on galvanized parts, brass or copper parts. ABC 1106 is recommended for all steel parts requiring in process rust removal, brightening or scale removal.

ABC 1106 is a heavy duty parts cleaner and may be used to remove rust on painted or unpainted steel, cast iron or aluminum parts. It may be used as part of a five or seven stage wash process prior to painting or coating parts. ABC 1106 contains a high level of surfactants and may be used to clean parts with heavy oil or soil loads. It is effective in removing welding scale and slag from laser welded parts. ABC 1106 contains a rust inhibitor to prevent flash rusting on parts and equipment. It is intended for heated wash tanks at 120-150°F, although it may be used in soak applications at ambient temperatures.

## ▷ FEATURED BENEFITS

- Enhanced Acid Cleaning technology for removing soils and welding slag from stamped, formed and welded parts and tubing
- Effectively removes rust and mineral deposits from tubing and parts
- Safe for aluminum, steel, cast iron and stainless steel
- High performance, low foam detergent package for removing oily soils in soak or spray applications
- Excellent product for pre-paint applications
- Corrosion inhibitor to prevent attack on base metal
- May be used as a rust remover on most painted steel surfaces

## APPLICATION



### COMPATIBLE METALS

Steel  
Cast Iron  
Stainless Steel  
Aluminum Alloys

### OPERATION/APPLICATION METHOD

Dunk or spray washers

### RECOMMENDED OPERATING TEMPERATURE

120° – 150°F (49° – 66°C)

### RECOMMENDED DILUTION RANGE

10 – 25% v/v

### FOAMING CHARACTERISTICS

Low

### RUST PROTECTION

Provides in-process corrosion protection. For long term corrosion protection in storage or shipping, parts should be painted or an RP applied.





## TYPICAL PROPERTIES

|                  |                          |
|------------------|--------------------------|
| Fluid Type       | Acid based cleaner       |
| Appearance       | Clear, light gold liquid |
| Odor             | Mild                     |
| Specific Gravity | 1.35                     |
| pH               | Approximately 0.5        |
| Freezing Point   | -20°F (-28.9°C)          |

## PRODUCT APPLICATION / USAGE

ABC 1106 is a heavy duty parts cleaner and should be used on unpainted steel, cast iron or aluminum parts. It may be used as part of a five or seven stage wash process prior to painting or coating parts. ABC 1106 contains a high level of surfactants and may be used to clean parts with heavy oil or soil loads. It is effective in removing welding scale and slag from laser welded parts. ABC 1106 contains a rust inhibitor to prevent flash rusting on parts and equipment. It is intended for heated wash tanks at 120°-150°F, although it may be used in soak applications at ambient temperatures. ABC 1106 wash stage should be followed by a tap water rinse stage.

## MIXING DATA

The concentration of ABC 1106 may be controlled using an acid titration procedure.

Titrant: 0.1 N NaOH Sample Size: 1 ml Indicator: Bromcresol green- methyl red indicator. Titrate to color change.

| Concentration  | 14%  | 12% | 10% | 8%  | 6%  | 4%  | 2%  |
|--|------|-----|-----|-----|-----|-----|-----|
| Base (factor = 0.035)<br>Titration Test Kit (# drops 0.1 N NaOH) | 10.5 | 9.0 | 7.5 | 6.0 | 4.5 | 3.0 | 1.5 |

## TANK SIDE ADDITION EQUATION

$$\frac{\%v/v = 1.333(\text{titration, mL})}{100} \text{ Tank capacity} = \text{amount to add}$$

## PRODUCT CODE

4003200000

## HEALTH AND SAFETY

For health and safety guidance, please refer to the Chemtool SDS (Safety Data Sheets).