

ABC 1106A-F

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

▷ PRODUCT DESCRIPTION

ABC 1106A-F is a concentrated liquid acid cleaner and descaler formulated to remove rust, oil, and laser welding scale on steel products. ABC 1106A-F is effective on aluminum as well, to remove welding marks and buildup. ABC 1106A-F is recommended for all steel parts requiring in-process rust removal, brightening, or scale removal. ABC 1106A-F is a high-temperature, high performance version of ABC 1106.

▷ FEATURED BENEFITS

- Fully formulated product for maximum performance and longest bath life
- Cleans and removes laser welding marks and brazing smut
- Removes rust and oxidation from steel and aluminum
- Concentrated formula, proven to outperform the toughest competition
- Extends bath life for less downtime

▷ APPROVALS

- Super-compliant for California SCAQMD Rule 1144

APPLICATION



COMPATIBLE METALS

Steel
Cast Iron
Stainless Steel
Aluminum Alloys

OPERATION/APPLICATION METHOD

Immersion

RECOMMENDED OPERATING TEMPERATURE

150° to 180°F (66° to 82°C)

RECOMMENDED DILUTION RANGE

12 – 20% v/v

FOAMING CHARACTERISTICS

High

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 cleaner and descaler
Appearance	Clear light gold liquid
Odor	Mild
Specific Gravity, 60°F (15.6°C)	1.35
Weight, 60°F (15.6°C)	11.2 lbs/gal.
Freezing Point	-20°F (-28.9°C)
VOC, ASTM 1868	Nil

PRODUCT APPLICATION / USAGE

ABC 1106A-F is a heavy duty acid cleaner and should be used on steel, cast iron, or aluminum parts in dunk or soak tanks. It is not recommended for use on galvanized, brass, or bronze parts. It may be used as part of a five or seven stage wash process prior to painting or coating parts. ABC 1106A-F 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 1106A-F contains a rust inhibitor to reduce attack on base metal. Use ABC 1106A-F for difficult cleaning duties at 12 –20% and 170°F. ABC 1106A-F wash stage should be followed by a tap water rinse stage.

MIXING DATA

ABC 1106A-F titration procedure: Pipet 1.0 mL ABC 1106A-F solution into a small beaker. Add 4 drops or one package Brom-cresol green methyl red indicator. Titrate with 0.1 N NaOH to the green end point or pH 4.3. See Chart below for concentration. Check with your Chemtool Sales Engineer for the proper concentration range for your system.

The concentration of ABC 1106A-F may be controlled using an acid titration procedure.
 Titrant: 0.1 N NaOH Sample Size: 1 ml Indicator: Methyl Orange. Titrate to color change.

Concentration	15%	12%	10%	8%	6%	4%	2%
Base (factor = 0.035) Titration Test Kit (# drops 0.1 N NaOH)	12.2	1.0	8.2	6.7	5.0	3.6	1.8

TANK SIDE ADDITION EQUATION

$$\frac{\%v/v = 1.23(\text{titration, mL})}{100} \text{ Tank capacity} = \text{amount to add}$$

PRODUCT CODE

4003300000

HEALTH AND SAFETY

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