

CHEMTRONICS®

Technical Data Sheet

TDS # CLF8

Chemask® Lead-Free Solder Masking Agent

PRODUCT DESCRIPTION

Chemask® Lead-Free Solder Masking Agent is a temporary, fast curing, peelable solder masking agent formulated for use in high temperature lead-free applications. It is a temperature resistant coating that protects component-free areas of the PCB during wave soldering. Chemask® Lead-Free can be introduced into the preheat oven within 4 minutes of application without adverse effects. Use to protect pins, posts, contacts and edge connections during conformal coating processes.

- Stable to 550°F (288°C)
- Can be used in lead-free or Tin/Lead applications
- Compatible with rosin, no clean, and water soluble fluxes
- Unaffected by cleaning solvents
- Leaves no residue – non-contaminating
- Ready for wave solder in 4 minutes
- Dries tack free in 15 minutes
- RoHS compliant

TYPICAL APPLICATIONS

Chemask® Lead-Free Solder Masking Agent protects:

- Component Free Areas for Soldering
- Components and Sockets
- Pin Connectors During Soldering
- Temperature Sensitive Components During Wave Soldering

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Base Material	Natural latex rubber
Color	Pink
Solvent Stability (cured mask)	Stable in all hydrocarbon, hydrofluorocarbon, chlorinated, and halogenated solvents
Flux Compatibility	All types
Temperature Stability	550°F
Tack-Free Drying Time (10 mils @ 77°F)	15 min.
Cure Time (10 mils @ 77°F)	30 min.
Viscosity (@ 77°F) (± 10,000 cps)	190,000 cps
Viscosity Adjusted With	Deionized water
Solids Content	~ 80%
Flash Point	Nonflammable
Weight/Gallon	7.2 lbs.
Shelflife	2 years

COMPATIBILITY

Chemask® Lead-Free Solder Masking Agent is generally compatible with most materials used in printed circuit board fabrication. As with any solder masking agent, compatibility with substrate must be determined on a non-critical area prior to use. Test compatibility on bare copper.

APPLICATION METHOD

Squeeze Bottle/Syringe	Yes
Spatula	Yes
Screening	No
Automatic Dispensing	Yes
Removal/Clean-up	By Hand

USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

Chemask[®] Lead-Free Solder Masking Agent is engineered for all electronic manufacturing applications. When applying by hand using squeeze bottle, syringe or spatula, insure that all areas of the pretinned hole are evenly covered on the side to be soldered. Automatic dispensing equipment may also be used as appropriate.

REMOVAL: After allowing the mask to become fully cured, peelable solder mask can be removed by hand or by the use of tweezers. Depending on ambient conditions, peelable mask may remain on assemblies for extended periods of time prior to component insertion.

AVAILABILITY

CLF8 8 oz. Squeeze Bottle
CLF1 1 Gal. / 3.7 L liquid

TECHNICAL & APPLICATION ASSISTANCE

ITW Chemtronics[®] provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401.**

NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. ITW CHEMTRONICS[®] does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

MANUFACTURED BY:

ITW CHEMTRONICS[®]
8125 COBB CENTER DRIVE
KENNESAW, GA 30152
1-770-424-4888 REV. A (02/05)

Chemtronics[®] and Chemask[®] are registered trademarks of ITW Chemtronics. All rights reserved.

DISTRIBUTED BY:

All-Spec Industries	www.allspec.com
5228 US Hwy 421 N	sales@allspec.com
Wilmington, NC 28401	
PH: 800-537-0351	FX: 800-379-9903