

CHEMASK[®] SOLDER MASKING AGENTS



Maximum Protection From Extreme Conditions

Chemask[®] Solder Masking Agents provide high-temperature protection from the extremes of the solder reflow processes, leaving your boards unharmed by temperature or corrosive environments. All Chemask products are non-contaminating and will not leave ionic or corrosive residue.

 **Chemtronics[®]**

Solder Masking Agents

Chemask® NA — Non-Ammoniated

High temperature, peelable, temporary mask safe for use on sensitive metals

- Will not affect gold, copper, nickel, silver and OSP finishes
- For lead-free or tin/lead processes
- Stable to 550°F (288°C)
- Phthalate-free, low toxicity and environmentally safe
- Compatible with rosin, no-clean and water soluble flux types
- Dries tack free in 15 minutes
- Can be placed directly into pre-heat oven without waiting
- Removes easily and leaves no residue
- Non-contaminating, non-staining and noncorrosive

Applications:

- Engineered for use with bare copper, silver and other reactive metals
- Ideal for SMT applications

CNA8 8 fl oz / 236 ml liquid squeeze bottle
CNA1 1 gal / 3.7 L liquid

Chemask® — Peelable

Fast curing, peelable temporary solder masking agent

- Dries tack-free in 15 minutes
- Easy to use — just peel off dried Chemask® masking agent
- Latex material is compatible with all flux systems and stable with cleaning solvents

Applications:

- Ideal for protecting contacts during wave soldering
- Use as a protective mask during conformal coating process for: switches, pins, posts, contact and edge connections

CM8 8 fl oz / 236 ml liquid squeeze bottle
CM1 1 gal / 3.7 L liquid

Chemask® LF — Lead-Free

High temperature, peelable temporary mask ideal for lead-free applications

- Formulated for use with lead-free applications
- Can also be used with tin/lead solders
- Usable within five minutes of application with preheat cycles
- Provides short-term high temperature protection up to 550°F (288°C)

Applications:

- Engineered for high temperature lead-free applications
- Easily peeled off boards

CLF8 8 fl oz / 236 ml liquid squeeze bottle
CLF1 1 gal / 3.7 L liquid



Product Selection Guide

Product Characteristics

	Color	Flexibility	For Lead-Free Applications	Contains Ammonia	Safe for Sensitive Metal Surfaces	Tack Free Time @ Room Temperature	Full Cure Time @ Room Temperature	Preheat Activated	Flux Resistance	Solvent Resistance
Chemask® Peelable	Pink	1	4	Yes	NR	15 min.	30 min.	NA	All types	All types
Chemask® NA Non-Ammoniated	Green	2	1	No	Yes	15 min.	30 min.	Yes; can be placed directly into preheat	All types	All types
Chemask® LF Lead-Free	Pink	1	1	Yes	NR	15 min.	30 min.	Yes; 4 min. full cure	All types	All types
Chemask® HT Peelable	Green	1	1	No	Yes	15 min.	30 min.	Yes; 4 min. full cure	All types	All types
Chemask® HV High Viscosity	Pink	1	4	Yes	NR	15 min.	30 min.	Yes; 4 min. full cure	All types	All types
Chemask® Aqua Water Soluble	Orange	3	1	No	Yes	30 min.	60 min.	NA	All types	Remove with water and water-based cleaners
Chemask® WF Water Filterable	White	NA	1	No	Yes	30 min.	60 min.	NA	Not compatible with water-based flux	Remove with water and water-based cleaners
Chemask® W Water Soluble	Blue	4	2	No	Yes	30 min.	60 min.	NA	All types	Remove with alcohol, ketone, water and water-based cleaners

1 – Outstanding

2 – Excellent

3 – Good

4 – Fair

NA – Not Applicable

NR – Not Recommended

Chemask® HV — High Viscosity

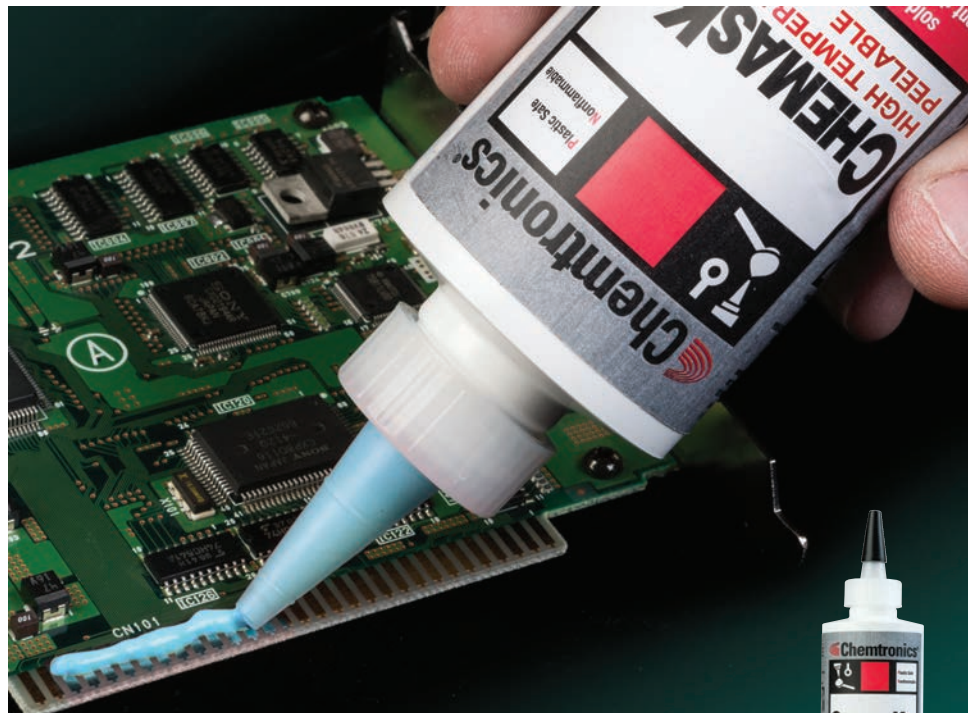
High viscosity, peelable temporary solder masking agent

- Usable within five minutes of application with preheat cycle
- More controlled application
- Thicker coating does not seep through thru-holes
- Latex material is compatible with all flux systems and stable with cleaning solvents

Applications:

- Ideal for all thru-hole manufacturing applications
- Use as a protective mask during conformal coating process for: switches, pins, posts, contact and edge connections

CHV8 8 fl oz / 236 ml liquid squeeze bottle



NEW!

	Application Methods				Removal Methods		
	Automated Dispenser	Hand Dispenser	Stencils	Screens	Peelable	Water Washable Open Loop	Water Washable Closed Loop
	Yes	Yes	No	No	Yes	No	No
	Yes	Yes	Yes	Yes	Yes	No	No
	No	Yes	No	No	Yes	No	No
	Yes	Yes	No	Yes	Yes	No	No
	No	Yes	No	No	Yes	No	No
	Yes	Yes	Yes	Yes	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	Yes
	Yes	Yes	Yes	Yes	No	Yes	No

Chemask® HT

High temperature, peelable, temporary mask safe for use on sensitive metals

- Stable to 550°F (288°C)
- Stable at long temperature exposure up to 300°F
- For lead-free or tin/lead processes
- Phthalate-free, low toxicity and environmentally safe
- Compatible with rosin, water soluble fluxes and cleaning solvents
- Dries tack free in 15 minutes
- Goes straight into the pre-heat oven
- Removes easily and leaves no residue
- Non-contaminating, non-staining and non-corrosive
- Compatible with gold, copper, nickel, silver and OSP finishes

Applications:

- Protects component-free areas during wave and reflow soldering
- Protects components and pin connectors
- Protects temperature sensitive components during wave or reflow soldering

CMHT8 8 fl oz / 236 ml liquid squeeze bottle
CMHT1 1 gal / 3.7 L liquid

NEW!

Chemask® Aqua

High temperature, water soluble, temporary mask safe for use on component-free areas

- Protects boards from molten solder to 515°F (268°C)
- Prolongs deionized water system life
- Low foaming
- Compatible with most flux types
- Leaves no corrosive residue
- Does not contain Methanol
- Non-contaminating

Applications:

During wave soldering, Chemask® Aqua Solder Masking Agent protects:

- Component free areas
- Gold connectors
- Gold fingers
- Pin connectors



CMAQ8 8 fl oz / 236 ml liquid squeeze bottle

CMAQ1 1 gal / 3.7 L liquid

Chemask® WF — Water Filterable

Low-foaming, water filterable temporary solder masking agent

- Easily removed in water cleaning cycles
- Does not coat filtration equipment
- Noncorrosive; safe for sensitive contacts
- Removed with inexpensive filters, increasing the life span of activated carbon/resin beds
- US Patent Number 6,207,265

Applications:

- Ideal for use with closed loop cleaning systems
- Increases productivity by reducing cleaning system maintenance
- Short-term high-temperature protection from molten solder to 515°F (268°C)

CWF8 8 fl oz / 236 ml liquid squeeze bottle

CWF1 1 gal / 3.7 L liquid

Chemask® W — Water Soluble

Water soluble temporary solder masking agent

- Dissolves in water cleaning cycles
- Noncorrosive; safe for sensitive gold, silver and copper

Applications:

- Can be used as a water soluble tacking compound

CW8 8 fl oz / 236 ml liquid squeeze bottle



Chemtronics® — Offering you the right products for your applications.

Still not sure which product is right for your application? Chemtronics' sales and technical services staff are ready with expert guidance to ensure that you have the information necessary to make the best choice.

Call your local Chemtronics sales representative or our Technical Hotline at 1-770-424-4888 ext 137 or e-mail us at AskChemtronics@chemtronics.com.



 **Chemtronics®**
Nothing Performs Like Chemtronics

Chemtronics USA:

8125 Cobb Center Drive ■ Kennesaw, GA 30152-4386
Tel: 770-424-4888 ■ Toll Free: 1-800-645-5244
Fax: 770-424-4267 ■ Toll Free Fax: 1-800-243-6003
www.chemtronics.com
askchemtronics@chemtronics.com

Chemtronics – European Office:

ITW Contamination Control BV
Saffierlaan 5, 2132 VZ Hoofddorp ■ The Netherlands
+31 88 1307 400 ■ info@itw-cc.com

Chemtronics – China office:

ITW Contamination Control Wujiang
Room 2703, Xing Yuan Building,
418 Gui Ping Road ■ Shanghai, China
+86-21-54261212 ext. 403
china_sales@chemtronics.com