

ITW CHEMTRONICS®

Application Sheet

APS # CHEMASK

Chemask® Selection Guide – Process Parameters

Choosing the right temporary solder mask for the particular application is critical for best results. Use this guide to lead you to the best selection.

Process	Recommended Product
No Cleaning In Process	Chemask, Chemask HV
Closed Loop Aqueous System	Chemask WF
Open Loop Aqueous System	Chemask W, Chemask WF
Fast Process Cycle	Chemask HV
Automatic Dispensing	Chemask, Chemask W
Screen Printing	Chemask W, Chemask WF

Aqueous Cleaning Processes

Chemask W, and Chemask WF are all designed for use with an aqueous cleaning system. In order to obtain the best results from these products in aqueous cleaning systems, the following operating parameters must be observed.

A. Chemask W Operating Specifications

Aqueous System Type	Open Loop only
Flux Type	All Types
Micron Filter size	1 micron
Application Method	Hand Application / Automatic Dispenser
Tack Free Time	30 minutes
Pre-process Mask Dwell Time	<24 hours
Pre-Heat Temperature	120 - 250F Convection
Line Speed	1 - 6 feet per minute
Wash Speed	1 - 6 feet per minute

B. Chemask WF Operating Specifications

Aqueous System Type	Open Loop/Closed Loop
Flux Type	All Types
Micron Filter size	10 microns
Application Method	Hand Application / Automatic Dispenser (Chemask LV)
Tack Free Time	30 minutes
Pre-process Mask Dwell Time	<24 hours
Pre-Heat Temperature	120 - 300F Convection
Line Speed	1 - 6 feet per minute
Wash Speed	1 - 3 feet per minute

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Manual Removal Processes

Chemask and Chemask HV are formulated to be manually peeled from the board. In order to obtain the best results from these systems, the following operating parameters must be observed.

A. Chemask Operating Specifications

Board Technology	Through Hole, SMT
Flux Type	All Types
Micron Filter size	Not Applicable
Application Method	Hand Application/Dispenser
Tack Free Time	30 minutes
Pre-process Mask Dwell Time	<24 hours
Pre-Heat Temperature	120 - 250F Convection
Line Speed	1 - 6 feet per minute
Wash Speed	1 - 6 feet per minute

B. Chemask HV Operating Specifications

Board Technology	Through Hole, SMT
Flux Resistance	All Types
Micron Filter size	Not Applicable
Application Method	Hand Application
Tack Free Time	Usable in 5 minutes
Pre-process Mask Dwell Time	<24 hours
Pre-Heat Temperature	120 - 300F Convection
Line Speed	1 - 6 feet per minute
Wash Speed	1 - 3 feet per minute

Availability

Chemask®

CM8 8 oz. liquid squeeze bottle
CM1 1 gallon liquid

Chemask® HV

CHV8 8 oz. liquid squeeze bottle
CHV1 1 gallon liquid

Chemask® W

CW8 8 oz. liquid squeeze bottle
CW1 1 gallon liquid

Chemask® WF

CWF8 8 oz. liquid squeeze bottle
CWF1 1 gallon liquid

TECHNICAL & APPLICATION ASSISTANCE

Contact the ITW Chemtronics® technical hotline for more information on these products, shelflives or application questions. ITW Chemtronics® provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401**.

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