

ALPHA[®] SC-7525

Cleaner for Stencils and Misprints

DESCRIPTION

ALPHA SC-7525 Cleaner is an aggressive solvent developed to replace isopropanol (IPA) in various manual and equipment-related cleaning applications.

ALPHA SC-7525 is a blend of alcohols, aliphatic hydrocarbons and orange terpenes. This combination of polar and non-polar ingredients is excellent for removing all types of solder pastes from stencils and misprinted assemblies (misprints). **ALPHA SC-7525** Cleaner is applied concentrated by hand or by immersion.

The **ALPHA SC-7525** formulation provides the proper balance of selective solvency, fast-drying property and familiar IPA odor. **ALPHA SC-7525** Cleaner evaporates completely leaving no solvent residue on cleaned surfaces. **ALPHA SC-7525** Cleaner will aid in the elimination of white residues often left by IPA.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

Customer Uses for ALPHA SC-7525 Cleaner:

Stencils	PWBs	Other
No-Clean Solder Paste	Misprints	Pallets / Fixtures
Water-Soluble Solder Paste	No-Clean Solder Paste Residues	Wave Solder Fingers
Rosin-Based Solder Paste	Conformal Coatings	Reflow Equipment
	Hand Solder Flux Residues	

Manual Applications: ALPHA SC-7525 Cleaner performs better than IPA in the removal of solder pastes, tape residues, oily contaminants and conformal coatings from stencils or misprint boards; yet it retains the evaporative and odor characteristics of IPA. ALPHA SC-7525 Cleaner is also suitable for cleaning flux residues after touch-up and rework.

Like IPA, ALPHA SC-7525 Cleaner is not an effective cleaner for uncured SMD (epoxy) adhesives. Alpha recommends ALPHA SM-110 for uncured SMD adhesive removal, as well as other difficult stencil and misprint cleaning applications.

Equipment Application: In addition to handwipe applications, ALPHA SC-7525 Cleaner may also be used in metal dip tanks and other equipment specifically designed for flammable materials such as IPA. After cleaning, the surface of a stencil or assembly can be dried by evaporation or solvent displacement with forced air. No water rinse is required. Materials cleaned in ALPHA SC-7525 Cleaner may be rinsed with fresh product or water if additional rinsing is desired.

ALPHA SC-7525 vs IPA Comparison

Performance Comparison: Tests demonstrate that ALPHA SC-7525 Cleaner offers superior cleaning performance over IPA. Several common solder pastes were applied to metal coupons and then test-cleaned in ALPHA SC-7525 and IPA. The following chart summarizes the soils cleaned and required time for removal.

Solder Paste	ALPHA RMA-390DH4 No-Clean	ALPHA WS-609 Water Soluble
Cleaning Agent	Time Required for Complete Removal of Solder Paste (Minutes)	
ALPHA SC-7525	2.5	1.0
IPA	4.0	3.8

Drying Comparison: Evaporation rates indicate drying and solvent loss for a period of time. When evaluating drying times, thin film evaporation rates must be measured. However, to record solvent loss, bulk liquid evaporation rates are observed. Low flash points are often related to fast evaporation.

Thin film and bulk liquid studies were conducted to determine evaporation rates of ALPHA SC-7525 Cleaner and IPA. The results summarized in the following table indicate that the evaporation rates of ALPHA SC-7525 Cleaner are nearly equal to those of IPA.

Solvent	Flash Point	Thin Film Evaporation Rate (IPA = 1)	Bulk Container Solvent Loss (IPA = 1)
ALPHA SC-7525	15.6 °C	1.49	1
IPA	11.7 °C	1	1

Compatibility

ALPHA SC-7525 Cleaner has compatibility characteristics similar to IPA but is less aggressive than ALPHA SM-110 Cleaner. Compatibility data for the ALPHA SM-110 is available in detail from your local Alpha representative. ALPHA SC-7525 Cleaner is compatible with most epoxies, flex laminates and other cross-linked polymers. It does not affect cured solder mask.

TECHNICAL DATA

Typical Properties Comparison:

	ALPHA SC-7525	IPA
Appearance	Colorless to slight yellow	Colorless
Flash Point (Pensky-Martens Closed Cup)	15.6 °C	12 °C
Specific Gravity at 25 °C	0.7868	0.7850
Surface Tension at 25 °C	21.4 mN/m	20.8 mN/m
Non-Volatile Residue	None Detected	None Detected
Odor	Mild Alcohol	Mild Alcohol
Shelf Life (from Date of Mfg.)	540 days	

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacDermidAlpha.com/assembly-solutions/knowledge-base**

CONTACT INFORMATION

**To confirm this document is the most recent version, please contact
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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