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MacDermid Alpha ELECTRONICS SOLUTIONS

TECHNICAL DATA SHEET

KESTER® 5744 SOLDER SAVER®

DESCRIPTION

Kester 5744 Solder Saver is a chloride-free, inorganic white powder formulated to remove dross, the oxide of solder, from still solder pots and wave soldering machines. Unlike most active reducing materials, 5744 does not decompose to sticky residues that are harder to remove than the original dross. 5744 has been designed to be low fuming and is stable at soldering temperatures and has been shown to be effective up to 380 °C (720 °F). This makes the 5744 a good candidate for both tin-lead and lead-free solder baths. Unlike flammable, messy, organic-based solder cover chemicals, 5744 is a non-flammable powder that remains a solid while it is working and is easily removed from the solder pot after it is used. Reducing tin oxide back to tin metal will greatly reduce dross scrap and will help keep the soldering pot surface clear of residues.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

TECHNICAL DATA

Category	Results
Physical Properties	
Appearance	White Crystals
Melting Point	Sublimes >300 °C
Flash Point	None

APPLICATION

5744 must be used on a still solder pot surface. All solder wave pumping and agitation action must be turned off. The pot temperature should be controlled to 232 to 260 °C (450 to 500 °F). Cover the solder surface with 5744 by sprinkling the powder on the pot in a thin covering layer, no greater than 6.4 mm (0.25 in) thick. Slowly mix the salt with the surface of the solder with a metallic solder ladle or a metal spatula. Allow the salt 10 seconds after mixing to convert the dross back to solder. Move any dross on the pot into the salt covered surface to covert the dross to metal. When done, remove the dross recovery salt and other dirt residues with a metallic solder ladle or a metal spatula. All of the 5744 should be removed from the solder surface. 5744 is intended to be used as received.

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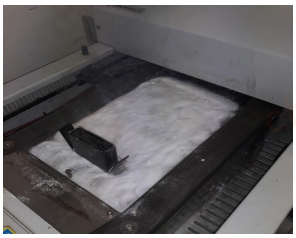
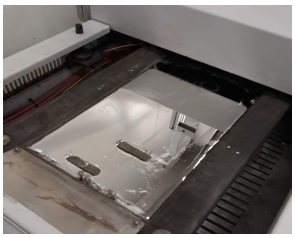
Wave solder pot with dross



A thick layer of 5744 placed on top of solder surface.



Solder pot post cleaning. Shiny with no evidence of dross.

STORAGE, HANDLING AND SHELF LIFE

5744 should be stored in sealed containers. Shelf life is 3 years from date of manufacture when handled properly and held at -10 to 45 °C (14 to 113 °F).

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.**

CONTACT INFORMATION

www.macdermidalpha.com

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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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