



QUALITEK®

Super Deox #1H Dross Recovery Powder

DESCRIPTION

Super Deox #1H is a white powder formulated to reduce and prevent oxides of *high temperature, lead-free (>200°C)* solders, commonly known as dross, on still pots and wave solder machines. Many competitive dross-reducing materials are based on mineral oils and fatty acid compounds that breakdown and deposit on the PCB assemblies. Super Deox #1 is a stable, low fuming, high melting compound with no flash or fire points. No smoke or fumes are generated when solder pot temperatures are below 485°F.

BENEFITS

- Low fuming
- Less alloy waste

PHYSICAL & CHEMICAL CHARACTERISTICS

Color and Appearance	Solid White Powder	
Flash Point	None	
Shelf life (un-opened)	2 Years	
Storage Condition	20-28 C	30-60%RH
pH, 5% sln.	3.00-4.00	

Recommended Solder Pot Temperature

Sn96.5/Ag3.5	500-530 °F (260-276 °C)
Sn95/Ag5	536-565 °F (280-296 °C)
Sn99.3/0.7Cu	510-530 °F (265-276 °C)
SnAgCu	520-530 °F (271-276 °C)
Sn95/Sb5	536-565 °F (280-296 °C)

APPLICATION

The following procedure should be performed periodically to reduce solder costs. Super Deox #1H should be used whenever there is an excess of dross that hinders the soldering process, or when a yellowish surface (tin oxide) is seen on the molten solder.

- 1) Solder pot temperature set at temperatures indicated on Table . The wave must be turned off.
- 2) Completely cover the molten solder surface with approximately 1/8 inch of Super Deox #1H by sprinkling it over the surface.
- 3) Using a spoon or spatula that will not contaminate the solder pot, work the Super Deox #1H into the pot by gently “chopping” it into the molten solder.
- 4) The process will take several seconds to complete. The Super Deox #1H will move about the surface of the molten solder and react with all oxides of tin and lead, converting them back into their metallic state.
- 5) After completion of the dross recovery process, remove all remaining dross, dirt, and other contaminants with a spoon or spatula. Complete removal of the Super Deox #1H particles is recommended.

PACKAGING & STORAGE

Super Deox #1H is available in 1, 10, 25, and 50 pound containers. It should be stored in dry place.

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Rev: 08142008-superdeox1H

Consult MSDS for health and safety information