

LC10K (low-chlorine, abrasive foam) PRODUCT DESCRIPTION



GENERAL

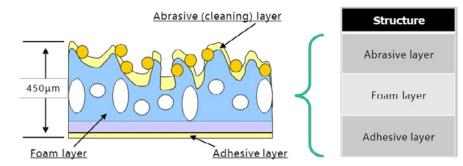
The presence of chlorine ions and chloride contamination on a bond pad surface can act as a catalyst for the copper (Cu) corrosion process and dramatically weaken the copper-aluminum (Cu-Al) intermetallic compounds (IMC). Reduced bond integrity can create long-term reliability issues for packaged devices.

LC10K (low-chlorine, abrasive foam) cleaning sheets were developed with chlorine levels of <100 ppm versus >800ppm of the SI10000-SWE (orange). The LC10K cleaning material has the same surface morphology / cross-section structure and matched material properties that define cleaning efficiency (i.e., hardness and wear rate). As with SI10000-SWE, the maximum operating temperature of the LC10K material is T = 80C.

To reduce the risk of chlorine contamination the LC10K (Low-Cl) material can be used as a direct replacement for the chlorinated SI10000-SWE for probe card cleaning applications

Material Property	LC10K (Low-Cl)	SI10000
Color	Green	Orange
Abrasive	#10000, Silicon-Oxide	#10000, Silicon-Oxide
Installed Thickness	~450um	~450um
Chlorine Content	< 100ppm	> 800ppm
Operating Temperature	0C to 80C	0C to 80C

CROSS SECTION

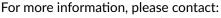


	Cleaning Material Configuration				
	Sheet	200mm Wafer	300mm Wafer	Custom Install	
LC10K Layer Thickness	450 μm (nominal)	450 μm (nominal)	450 μm (nominal)	450 μm (nominal)	
Support Carrier		725 ± 20μm (SEMI Standard)	775 ± 20μm (SEMI Standard)	Contact ITS	
Total Installed Stack Height	450 ± 100μm 1	1175 ± 120μm 1	1225 ± 120 μm 1	Contact ITS	

1. Due to inherent lot-to-lot height variations associated with the abrasively coated foam, a certificate of inspection is provided with each material lot and should be used as the starting prober overtravel.

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