CLEANING TECHNOLOGY

Made in Germany



MultiEx® VR-SP

Multifunctional aqueous alkaline broadband cleaning concentrate for oxides, flux and solder paste

Part No. 090678-CN25 // Contents: 25 I

Part No. 090678-CN200 // Content: 200 I (Barrel) Part No. 090678-CN1000 // Content: 1000 I (IBC)



















Application overview



PCBAs, Hybrids Power electronics Misprints (mounted)



Stencils Screens Misprints (bare boards)



Solder frames Solder carriers Solder masks



ESD boxes Containers Magazines



Condensation traps Filters Steel sheets

Technical data	
Color	transparent
ph-value at 20 °C	11,2
Conductance at 20 °C	< 100 µS/cm
Flash point	> 100 °C
VOC content	< 20 %
Standard mixing ratio	1:3 (effective from 10 %)
Water solubility	fully soluble
Application temperature	20 - 45 °C
Storing (in original container)	10 - 30 °C
CLP / GHS	GHS 07

phase) concentrate and cleans particularly oxides and flux as well as solder paste quickly, thoroughly and with best material protection from PCBs, ceramic substrates, misprints, stencils, solder frames, magazines, aluminium, stainless steel.

Concentrate for blending with water

kolb MultiEx® VR-SP is compliant with all worldwide legal regulations and direcprovided by suppliers and / or material certifications of the raw materials used in the production of kolb Cleaning Technology GmbH.

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MultiEx® VR-SP is a broadband standard PCB cleaning (single		

tives (REACH, RoHS, TSCA etc.) on the basis of own internal checks, analyses

Contaminations		
Adhesive / Glue	0	
Solder paste	++	
Flux	++	
Thermal compounds	_	
Oxides	++	
Condensate / Grease / Oil	+	
Machine Technologies		
Spray-in-air / (PowerSpray®)	++	
Spray-in-immersion	++	
Air-in-immersion (AirFlow®)	++	
Ultrasonic systems	+	
Manual application	0	

++ = ideal for application, + = recommended, o = optionally applicable, - = not recommended

Note: The spreadsheet only shows a general overview of the product specifications.

Cleaning tests are reasonable to determine the optimum cleaner configuration. Such tests may be carried out directly at the kolb demonstration center in Willich / Germany or Shanghai / China or can be initiated by contacting your local kolb partner.

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