## CLEANING TECHNOLOGY

**Made in Germany** 



## MultiEx® 3D-H2

Aqueous 3-dimensional special detergent combining 1. flux removal, 2. deoxidizing 3. passivating

Part No. 090663-RM25-2 // Content: 25 I

Part No. 090663-RM200 // Content: 200 I (Barrel)

Part No. 090663-RM1000 // Content: 1000 I (IBC Container)

















## **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

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Technical data	
Color	farblos
pH-value at 20 °C	10,4
Flash point	> 100 °C
VOC content	< 20 %
Water solubility	easily soluble
Application	pure
Application temperature	20 - 45 °C
Storing (in original container)	10 - 30 °C
CLP / GHS	GHS 07

MultiEx® 3D detergents work in three dimensions: 1. Flux removal, 2. Deoxidation of the metal surfaces, especially with copper and aluminum, 3. Passivation of the metal surfaces. MultiEx® 3D-H2 is a standard broadband cleaner for PCBA and

Detergent ReadyMix for direct use in a cleaning system. If necessary kolb AntiFoam F12 (Part No. 090683-1) is recommended as defoamer additive.

kolb MultiEx® 3D-H2 is compliant with all worldwide legal regulations and directives (REACH, RoHS, TSCA etc.) on the basis of own internal checks, analyses provided by suppliers and / or material certifications of the raw materials used in the production of kolb Cleaning Technology GmbH.

	Contaminations
	Adhesive / Glue
	Solder paste
	Flux
	Thermal compounds
	Oxides
	Coating / Varnishing
	Machine Techno
	Spray-in-air / (PowerS
	Spray-in-immersion

++ in-air / (PowerSpray®) in-immersion Air-in-immersion (AirFlow®) Ultrasonic systems + Manual application Ω

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++ = 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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