



## MultiEx<sup>®</sup> VR-HPA

Multifunctional aqueous alkaline broadband cleaning detergent for colophonium, flux and solder paste

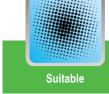
Part No. 090664-RM25 // Content: 25 I Part No. 090664-RM200 // Content: 200 I (Barrel)





## Application overview





PCBAs, Hybrids Power electronics Misprints (mounted)

Technical data

pH-value at 20 °C

Conductance at 20 °C

Application temperature

Storing (in original container)

Color

Phases

Flash point

VOC content

Application

CLP / GHS

Water solubility

Suitable Stencils Screens

Misprints (bare boards)

transparent

multiphase

< 100 µS/cm

> 100 °C

fully soluble undiluted

20 - 45 °C 10 - 30 °C

GHS 07

MultiEx<sup>®</sup> VR-HPA is a broadband cleaner for PCBs with sensitive components (e.g. aluminium) and cleans particularly colophonium 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.

kolb MultiEx® VR-HPA is compliant with all worldwide legal regulations and

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

ReadyMix for direct use in a cleaning system

< 20 %

11,0



Solder frames Solder carriers Solder masks



ESD boxes Containers Magazines



Condensation traps Filters Steel sheets

Contaminations	
Adhesive / Glue	++
Solder paste	++
Flux	++
Thermal compounds	++
Oxides	++
Coating / Varnishing	_
Machine Technologies	
Machine Technologies Spray-in-air / (PowerSpray <sup>®</sup> )	++
	++
Spray-in-air / (PowerSpray®)	
Spray-in-air / (PowerSpray <sup>®</sup> ) Spray-in-immersion	++
Spray-in-air / (PowerSpray <sup>®</sup> ) Spray-in-immersion Air-in-immersion (AirFlow <sup>®</sup> )	++

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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analyses provided by suppliers and / or material certifications of the raw materials used in the production of **kolb** Cleaning Technology GmbH. initiated by contacting y

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Page 1 of 1

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07/24