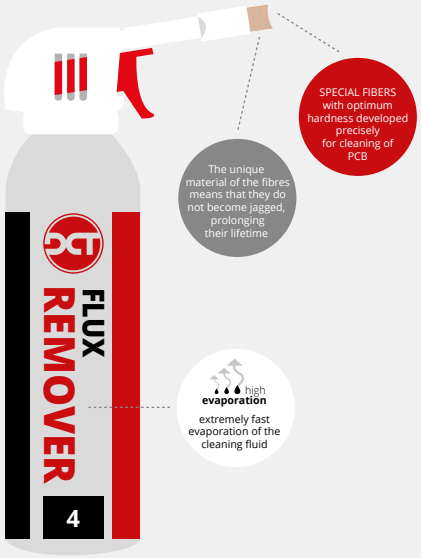
MANUAL CLEANING - SPRAYS

	WATER-BASED		ALCOHOL-BASED	
	REFLOW CLEANER 94	REFLOW CLEANER 88	FLUX REMOVER 4	STENCIL CLEANER 11
				
Area of use	**Manual maintenance cleaning of parts of reflow ovens and wave soldering ovens**		**Manual cleaning after the soldering process**	**Manual pre-cleaning and cleaning of stencils and squeegees**
To remove	flux and other residues	flux and other residues	solder pastes and flux	solder pastes and SMT adhesives
Specifications	low cleaning efficiency high compatibility low odour	high cleaning efficiency low compatibility high odour	high cleaning efficiency high compatibility low odour	high cleaning efficiency high compatibility low odour
pH	10 - 11	10 - 11	not measurable	not measurable
Flash point	none	none	< 10 °C	none
Standard packaging	1 litre spray	1 litre spray	400 ml spray	1 litre spray
Refill option	yes	yes	no	yes
Classification				
Other packaging available	bottle: 1 litre | can: 5, 10, 25 litres	bottle: 1 litre | can: 5, 10, 25 litres	none	bottle: 1 litre | can: 5, 10, 25 litres
Rinse	no rinse	no rinse	no rinse	no rinse
Drying	drying with wiper	drying with wiper	drying with ESD wiper	drying with wiper
Special properties	AF active foam	AF active foam	high evaporation	



Recommended procedure for cleaning PCB
using FLUX REMOVER 4 spray

01  applying the cleaning fluid from the spray to the PCB

02  manual cleaning of dirty parts of the PCB

03  absorption of dissolved impurities and drying using ESD wiper

04  any remaining fluid evaporates very quickly

For more information on correct manual cleaning, please watch our video manual by using this QR code.

MAP OF CLEANING FLUIDS AND SPRAYS

made in **CZECH REPUBLIC**

2 PHASE

fluid creates active emulsion

high ability to dissolve all residues

designed to use in spray in air cleaning machines (InJet®)

1 PHASE

fluid does not create emulsion

high ability to dissolve all residues

designed to use in air bubbling and ultrasonic cleaning machines (AirJet® and Sonix®)

ACTIVE FOAM

Reflow Cleaner sprays create stable active foam

fast and effective residues dissolving

CLEAN & PROTECT

cleaning fluids with special inhibitors

protection of sensitive metals high compatibility with aluminium, copper and other alloys

www.dct.cleaning

Decotron®

WATER-BASED

	Decotron® 281	Decotron® 239	Decotron® CP381	Decotron® T332	Decotron® T389F	Decotron® 23
Area of use	stencils, PCB misprints, squeegees	stencils, PCB misprints, squeegees	PCB after the soldering process, PCB misprints	filters of reflow ovens and wave soldering ovens	soldering frames	stencils in screen printing
To remove	solder pastes SMT adhesives	solder pastes SMT adhesives	solder pastes and flux	solder pastes and flux	solder pastes and flux	solder pastes
Properties						
pH	7	7	10-11	11-12	10-11	7
Flash point	non-flammable	non-flammable	non-flammable	non-flammable	non-flammable	non-flammable
Ready mix / concentrate	✔ / ✔	✔ / ✔	✔ / ✔	✔ / ✔	✔ / ✔	✔ / ✖
Diluting of concentrate	1:4	1:5	1:4	1:4	1:4	✖
Standard packaging	25 l	25 l	25 l	25 l	25 l	25 l, 5 l
Classification of ready mix	not classified	⚠	not classified	⚠	⚠	not classified
Recommended cleaning technology						
Spray in air	★★★	★★★	★★★	★★★	★★	✖
Air bubbling	★★	★★	✖	★★★	★★★	✖
Ultrasound	★	★	★	★★	★★	✖
Cleaning in screen printing	✖	✖	✖	✖	✖	★★★
Recommended process setting						
Temperature of cleaning	20-45 °C	45 °C	35-55 °C	20-40 °C	20-45 °C	ambient temperature
Pre-rinse	✖	✖	DI water	✖	✖	✖
Rinse	✖ / DI water	✖ / DI water	DI water	DI water	DI water	✖
Drying	hot air	hot air	hot air	hot air	hot air	✖
Special properties						
Number of phases	2 PHASE	1 PHASE	2 PHASE	1 PHASE	1 PHASE	1 PHASE
Other special properties		high evaporation, CLEAN ROOM READY	CP	CP, rehm FILTERS	CP	
Alternative cleaning fluids						
	Decotron® 230	Decotron® 348	Decotron® T300	✖		
	Decotron® 250/25	Decotron® 351S	Decotron® T311	✖		
	Decotron® 250	Decotron® 355S	Decotron® T317	✖		
	Decotron® 270	Decotron® C55S	Decotron® T319	✖		
	Decotron® 275	✖	Decotron® T385	✖		

Proton®

ALCOHOL-BASED

	Proton® 69	Proton® 703	Proton® 21	Proton® 29
Area of use	coating frames, coated PCB, parts of coating machines		stencils in screen printers	stencils in screen printers
To remove	acrylic coatings polyurethane coatings uncured adhesive epoxy	silicon coatings acrylic coatings	solder pastes	solder pastes
Properties				
pH	✖	✖	✖	✖
Flash point	78 °C	67 °C	65 °C	40 °C
Ready mix / concentrate	✔ / ✖	✔ / ✖	✔ / ✖	✔ / ✖
Diluting of concentrate	✖	✖	✖	✖
Standard packaging	25 l, 5 l	25 l, 5 l	25 l, 5 l	25 l, 5 l
Classification of ready mix	⚠	⚠	⚠	⚠
Recommended cleaning technology				
Spray in air	★★★	✖	✖	✖
Air bubbling	★★★	★★★	✖	✖
Ultrasound	★★★	★★★	✖	✖
Cleaning in screen printing	✖	✖	★★★	★★★
Recommended process setting				
Temperature of cleaning	35-55 °C	35-55 °C	ambient temperature	ambient temperature
Pre-rinse	✖	✖ / Decotron® ACW115	✖	✖
Rinse	✖ / DI water	DI water	✖	✖
Drying	hot air	hot air	✖	✖
Special properties				
Number of phases	1 PHASE	1 PHASE	1 PHASE	1 PHASE
Other special properties	high evaporation	CP	slow evaporation	high evaporation, EKRA approved
Alternative cleaning fluids				
	Proton® 532	✖	✖	Proton® 23
	Proton® 571	✖	✖	✖
	Proton® 42	✖	✖	✖
	Proton® MEK	✖	✖	✖
	Proton® 101, Proton® 275	✖	✖	✖

KEY

- ★ usable
- ★★ recommended
- ★★★ highly recommended
- ✖ not applicable, none
- ✔ yes

- rehm FILTERS — specially developed for cleaning Rehm oven filters
- CLEAN ROOM READY — approved in Clean Room environments
- CP — protects sensitive metals against corrosion
- high evaporation — specially developed for quick evaporation of the fluid
- slow evaporation — specially developed for gradual evaporation of fluid
- EKRA approved — the fluid is listed on the EKRA approved list

Exact physical and chemical properties and other detailed information can be found in the technical and safety data sheet of the relevant fluid.

Contact a DCT specialist at www.dct.cleaning to introduce and set the process, to optimise the process and to resolve process problems - trial test.

DCT FLUIDS

ARE MADE IN ACCORDANCE WITH ISO 9001 STANDARD

ENVIRONMENTAL FRIENDLY FLUIDS

RoHS Compliant

REACH SVHC

BIODEGRADABLE