










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 reflow oven parts 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		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		Not measurable	
Flash point	None		< 10 °C	
Standard packaging	1 litre spray		400 ml spray	
Refill option	✓		✗	
Classification				
Other packaging available	5, 10, 25 litres		None	
Rinse	No rinse		No rinse	
Drying	Drying with ESD wiper		Drying with ESD wiper	
Special properties				



**SPECIAL BRUSH** with **higher hardness fibers** for the most precise manual PCB cleaning.

**UNIQUE FIBERS** with excellent chemical and mechanical resistance **prevents deformation and fraying of the brush.**

Manual PCB Cleaning Using **FLUX REMOVER 4**

- 01



Spray the cleaning agent onto the contaminated PCB
- 02



Clean manually the polluted parts of PCB using the brush
- 03



Dry the PCB with an ESD wiper to absorb all dissolved impurities
- 04



Remaining cleaning agent **evaporates** quickly

WHY CHOOSE DCT?

100% COMPLETE **CLEANING SOLUTION**



CLEANING AGENTS



CLEANING SYSTEMS



PROCESS CONTROL

REFERENCES

















































# BETTER SOLUTIONS

# MAP OF CLEANING AGENTS AND SPRAYS



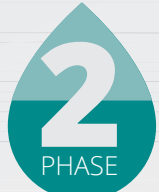
1  
PHASE

1<sup>st</sup> PHASE

Cleaning agents not creating emulsion

High ability to dissolve all residues

Designed to use in air-bubbling and ultrasonic cleaning systems (AirJet® and Sonix®)




2  
PHASE

2<sup>nd</sup> PHASE

Cleaning agents creating active emulsion

High ability to dissolve all residues

Designed to use in Spray-In-Air cleaning systems (InJet®)




active foam

ACTIVE FOAM

Cleaning sprays creating stable active foam

Fast and effective residues dissolving




CLEAN & PROTECT


CLEAN & PROTECT


Cleaning agents with special inhibitors

Protection of sensitive metals

High compatibility with aluminium, copper and other alloys









	WATER-BASED							
	Decotron® 250	Decotron® 239	Decotron® CP381	Decotron® 409	Decotron® T332	Decotron® T300SA	Decotron® 23	
Area of use	Stencils, PCB misprints, squeegees	Dust, grease from aluminium parts and plastics	Soldered PCBs, one side soldered one side misprints		Reflow oven parts, soldering frames	Soldering frames, Reflow oven parts	Under stencil	Coated PCB, parts of coating machines
To remove	Solder pastes SMT adhesives	Solder pastes SMT adhesives	Solder pastes and flux	Solder pastes and flux	Solder pastes and flux	Solder pastes and flux	Solder pastes	Acrylic coatings Polyurethane coatings

Properties							
pH	7	7	10-11	11	11	10	7
Flash point	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable	Non-flammable
Ready mix / concentrate	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ / ✗
Dilution of concentrate	1:3-5	1:5	1:4	1:3	1:2-3	1:3	1:3
Standard packaging	25 l	25 l	25 l	25 l	25 l	25 l	25 l, 5 l
Classification of ready mix	Not classified						

Recommended Cleaning Technology							
Spray-In-Air	★★★	★★★	★★★	★★★	✗	★★	✗
Air-Bubble	★★	★★	✗	✗	★★★	★★★	✗
Ultrasonic	✗	★	✗	✗	★★	✗	✗
Cleaning in screen printing	✗	✗	✗	✗	✗	✗	★★★

Recommended Process Setting							
Temperature of cleaning	20-45 °C	45 °C	35-55 °C	30-50 °C	30-45 °C	30-45 °C	Ambient temperature
Pre-rinse	✗	✗	DI water	✗ / DI water	✗	✗	✗
Rinse	DI water	✗ / DI water	DI water	DI water	DI water	DI water	✗
Drying	Hot air	Hot air	Hot air	Hot air	Hot air	Hot air	✗

Special Properties							
Number of Phases							
Other Special Properties		  			 		

Alternative Cleaning Agents			
	Decotron® 281	Decotron® 348	Decotron® T317
	Decotron® 250/25	Decotron® 351S	Decotron® T389F
	Decotron® 270	Decotron® 355S	Decotron® T391
	Decotron® 275	Decotron® C55S	Decotron® T392A



ENVIRONMENTALLY FRIENDLY  
CLEANING AGENTS



CLEANING AGENTS  
ARE MADE  
IN ACCORDANCE WITH  
ISO 9001 STANDARD



	ALCOHOL-BASED				
	Proton® 69	Proton® 705	Proton® 537	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 Uncured adhesive epoxy	Silicon coatings Acrylic coatings	Acrylic coatings Polyurethane coatings	Solder pastes	Solder pastes

Properties					
pH	✗	✗	✗	✗	✗
Flash point	68 °C	65 °C	96 °C	65 °C	40 °C
Ready to use	✓	✓	✓	✓ / ✗	✓ / ✗
Dilution of concentrate	✗	✗	✗	✗	✗
Standard packaging	25 l, 5 l	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-Bubble	✗	★	★	✗	✗
Ultrasonic	★★★	★★★	★★★	✗	✗
Cleaning in screen printing	✗	✗	✗	★★★	★★★

Recommended Process Setting					
Temperature of cleaning	35-50 °C	20-50 °C	20-45 °C	Ambient temperature	Ambient temperature
Pre-rinse	✗	✗ / Decotron® ACW115	✗ / DI water	✗	✗
Rinse	✗ / DI water	DI water	DI water	✗	✗
Drying	Hot air	Hot air	Hot air	✗	✗

Special Properties					
Number of Phases					
Other Special Properties				 	  

Alternative Cleaning Agents				
	Proton® 275	Proton® 703	Proton® 532	Proton® 23
	Proton® R07	Proton® 707	Proton® MEK	✗
	✗	✗	Proton® 101	✗
	✗	✗	Proton® 275, Proton® 541	✗



KEY

- ★ Usable
- ★★ Recommended
- ★★★ Highly recommended
- ✗ Not applicable, none
- ✓ Yes



Specially developed for  
cleaning of Rehm oven filters



Approved in Clean Room  
environments



Protects sensitive metals  
against corrosion



Specially developed for quick  
evaporation of the cleaning agents



Specially developed for gradual  
evaporation of the cleaning agents



Cleaning agents listed on EKRA  
approved list

For more information about our cleaning systems and cleaning chemistries please contact your local representative or DCT Technical Sales Manager.

Technical Data Sheets for listed products are available on our website [www.dct.cleaning](http://www.dct.cleaning)