CONFORMAL COATING – SILICONE

THE MOST EFFECTIVE AGENT FOR REMOVAL OF SILICONE

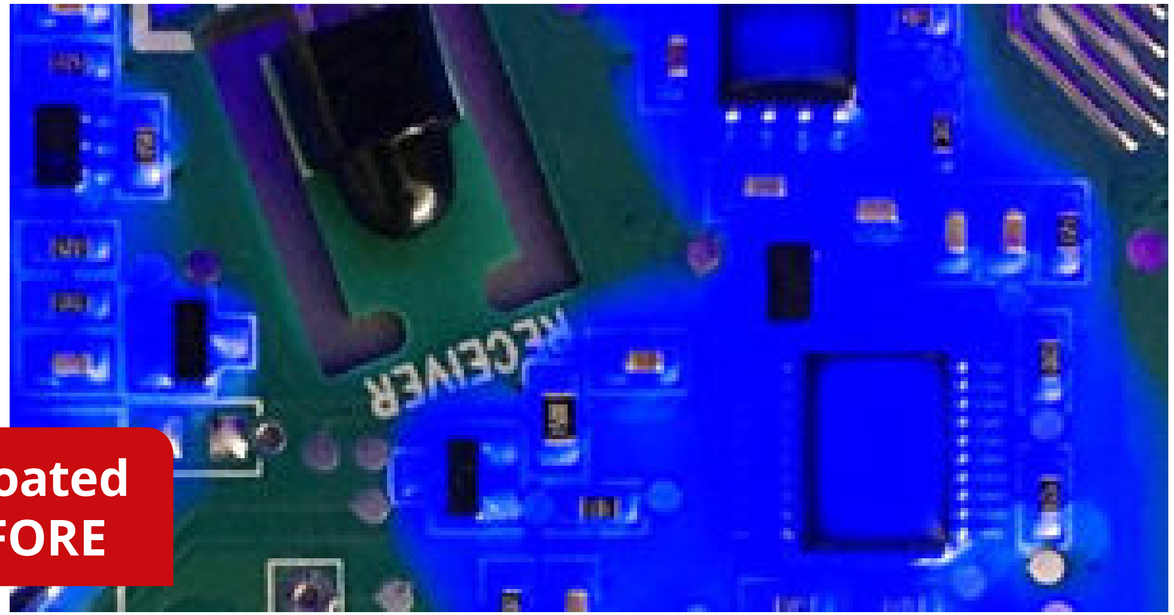
PROTON® 705
the strongest cleaning agent for removal of silicone

Our R&D team developed a new cleaning agent, which was given the name Proton® 705.

Development was focused on even **more effective cleaning of silicone** than with Proton® 703, which is really eco-friendly on the other hand.
Our team strived for **better time results** with **higher cleanliness of the components.**

We have tested **removal of silicone materials from several different surfaces** using our new product Proton® 705. The following case study is based on real testing in our laboratory, however, Proton® 705 has been already used at the customer as well and the **excellent functionality has been proven even in real.**

Silicone coated PCBs BEFORE



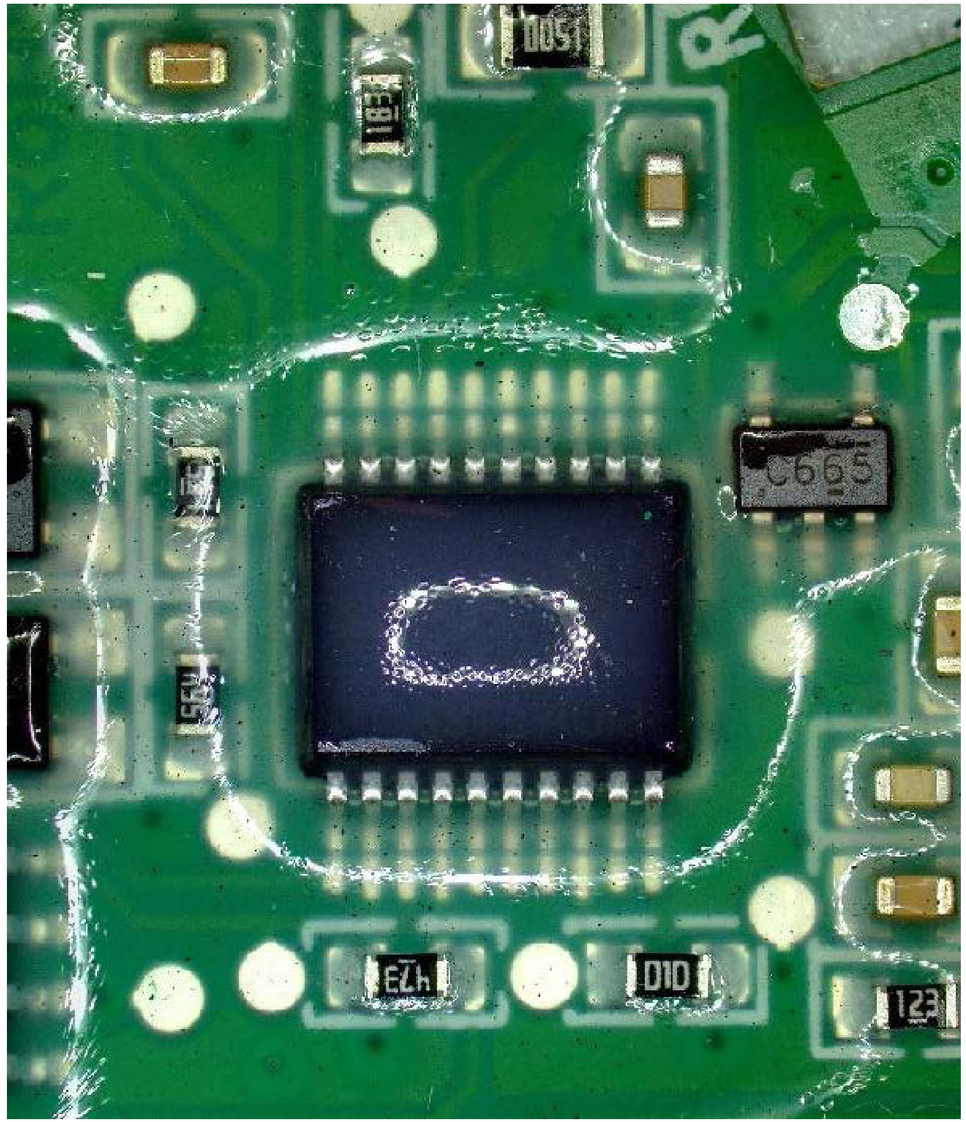
AFTER 1 hour in Proton® 705

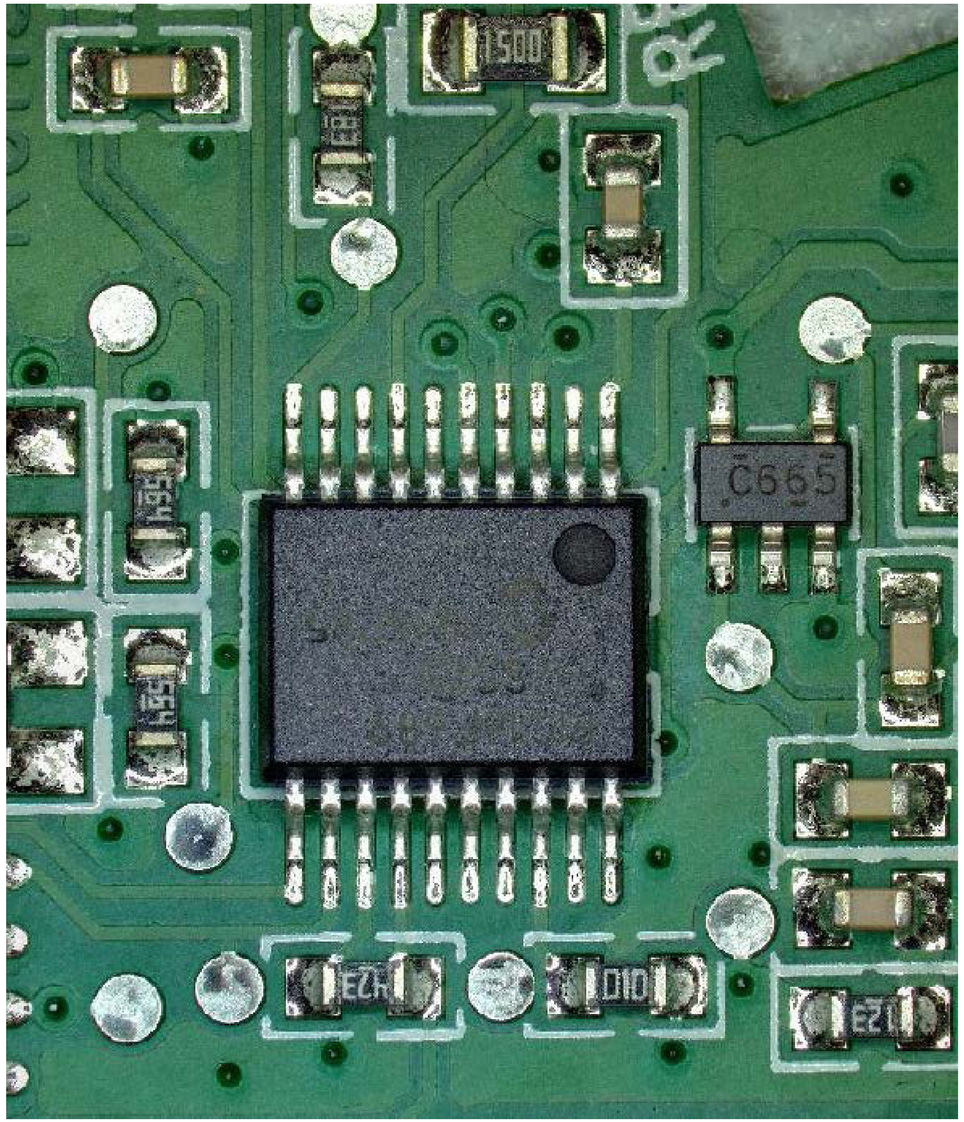
Types of Cleaned Components:

- Coating frames
- PCBs
- Components of coating machines

*All components were polluted by **silicone-based** conformal coatings, casting compounds or silicone-based adhesives.*

Silicone coated PCBs BEFORE → AFTER 1 hour in Proton® 705





COMPLETE CLEANING SOLUTION BY DCT

Technical data sheet

Alcohol-based cleaning agent **Proton® 705**

Technical data sheet

Cleaning system **InJet® 888 CRD** with the technology of horizontal high-pressure Spray-In-Air

For the brilliant results, we recommend using our cleaning agent **Proton® 705** in combination with our cleaning system **Injet® 888 CRD** as this combination has been tested in our DEMO center and it is a highly **effective combination for cleaning of silicone materials** from many different surfaces.

We believe our complete cleaning solution for the removal of silicone is unique on the market.

RECOMMENDED CLEANING PROCESS

After observation of our R&D team, the given parameters below can be stated as effective in most cases for the removal of silicone.

We recommend **first rinsing with Decotron® ACW 115** to remove all residues of Proton® 705 (for aluminum parts) or Proton® R07 (for PCBs).

For the **second rinsing**, we recommend DI or tap water according to cleanliness requirements.

Cleaning: Proton® 705
15–30 min / 45°C / 2,5 bar

1st Rinsing:
Decotron® ACW 115
or **Proton® R07**
5 min / 30°C

2nd Rinsing:
DI Water / 5 min / 30°C

Drying:
hot air / 15–30 min / 60°C

Coating Frames BEFORE → AFTER 15 Minutes Cleaning with Proton® 705

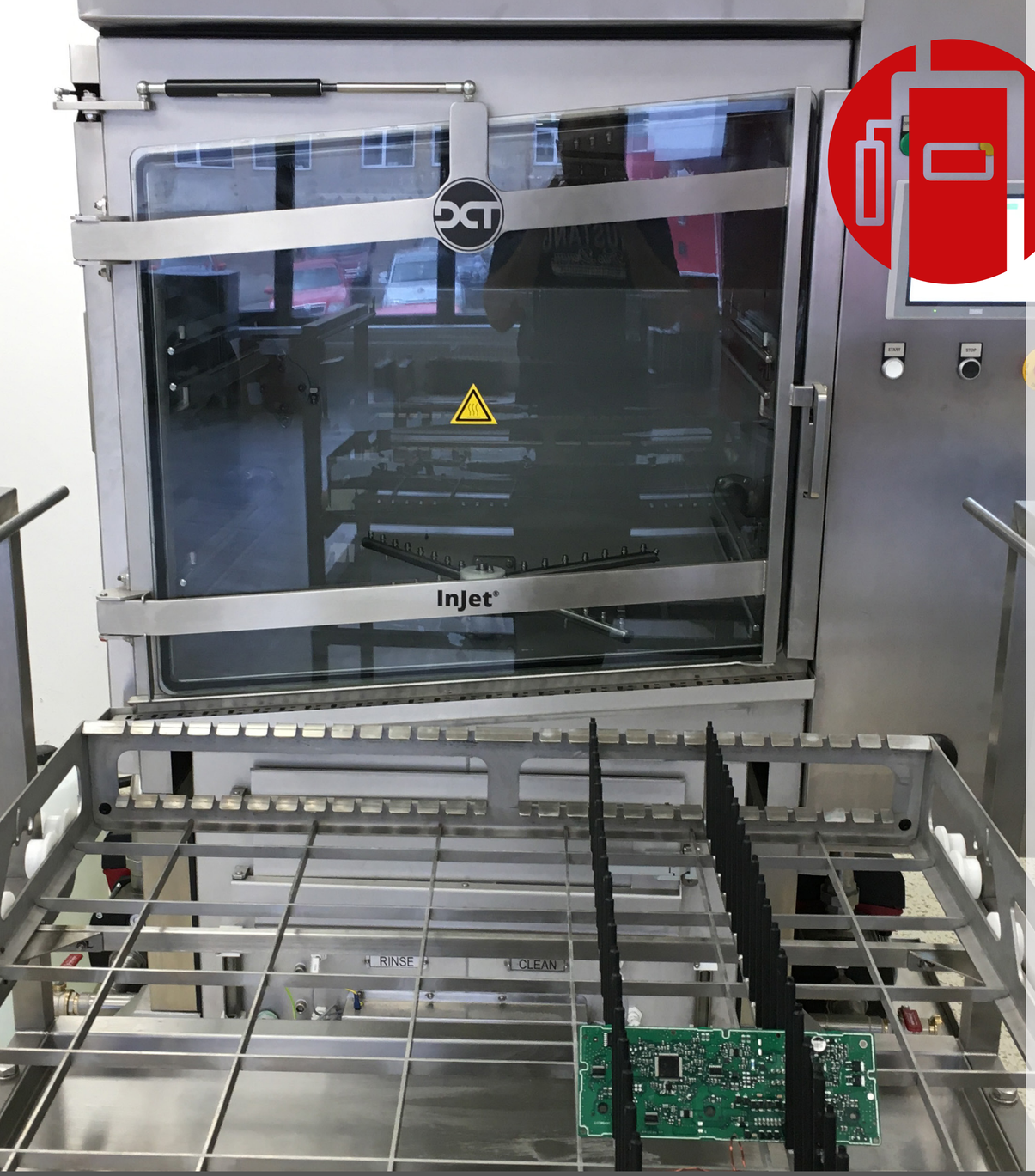
PROTON® 705
New Cleaning Miracle for Silicone Materials

Hazard identification:

Proton® 703	Proton® 705
Skin Irrit. 2, H315	Skin Irrit. 2, H315
Eye Irrit. 2, H319	Eye Irrit. 2, H319
	

DCT developed new alcohol-based cleaning agent Proton® 705 which is even more efficient compared to the current cleaning agent Proton® 703. **The reaction kinetics of Proton® 705 is up to 15 times higher, making silicone dissolution much faster.**

- ✓ **15 times faster** than Proton® 703
- ✓ Same substance as Proton® 703 BUT with **more suitable solvents**
- ✓ Cleave silicone-oxygen bonds more efficiently
- ✓ Classification of the mixture is the same as for Proton® 703
- ✓ Suitable for high-pressure Spray-In-Air and ultrasonic cleaning machines



RECOMMENDED CLEANING SYSTEM

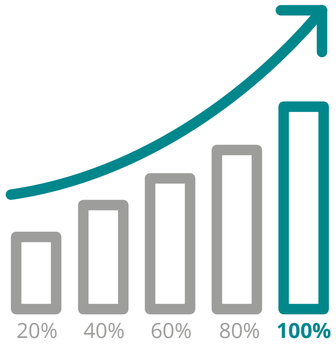
InJet 888® CRD

Technical data sheet

see our videoreport

with horizontal high-pressure Spray-In-Air.

★★★ **REFLOW** and **SOLDERING PARTS** cleaning
★★ **CONFORMAL COATING** removing
★★ **PCB** cleaning
★ **STENCIL, MISPRINT, SQUEEGEE** cleaning



TEST RESULTS

Success rate: 100%

For the most effective removal of silicone materials, we recommend our new cleaning fluid Proton 705!

A) The time required for the silicone to dissolve completely from tested **PCBs:**

Proton® 703: 12 hours
Proton® 705: 1 hour

B) The time required for the silicone to dissolve completely from tested **coating frames:**

Proton® 703: 3 hours
Proton® 705: 15 minutes

AFTER A PRECISE LABORATORY TEST
WE CAN RECOMMEND PROTON® 705 FOR CLEANING OF:

- Cured and uncured silicone-based conformal coatings
- Silicone-based casting compounds
- Silicone-based adhesives from PCBs, coating frames and components of coating machine parts

*Please note that **all types of components should be tested in our DEMO center before usage of Proton® 705.** Proton® 703 has higher compatibility with metal materials, while Proton® 705 has much higher effectiveness to remove silicone.*