

HOW TO EFFECTIVELY CLEAN REFLOW OVEN PARTS



WHAT IS THE CUSTOMER'S STORY?

The customer has been using our cleaning system InJet® 388 CRD in combination with Decotron® 281 for the cleaning of stencils since 2004. As they have been very satisfied with our cleaning solution, they contacted us again, asking for a functional solution for the maintenance cleaning of REHM reflow oven parts. The reason is mainly economical as the customer used an external company to clean their components, which is extremely demanding in terms of logistics as all 13 reflow oven parts had to have spare parts to be able to send the original parts to the cleaning company, and it is extremely expensive as well. The cost of external cleaning is several thousand euros per month.



WHAT WE TESTED?

Our R&D team tested the most effective way of how to clean reflow oven parts, which are contaminated by solder pastes and other impurities.

Solder Pastes Were of These Types:

ALPHA® CVP-390 InnoLot

Indium 5.8LS

Indium 8.9HF

NC-SMQ® 92

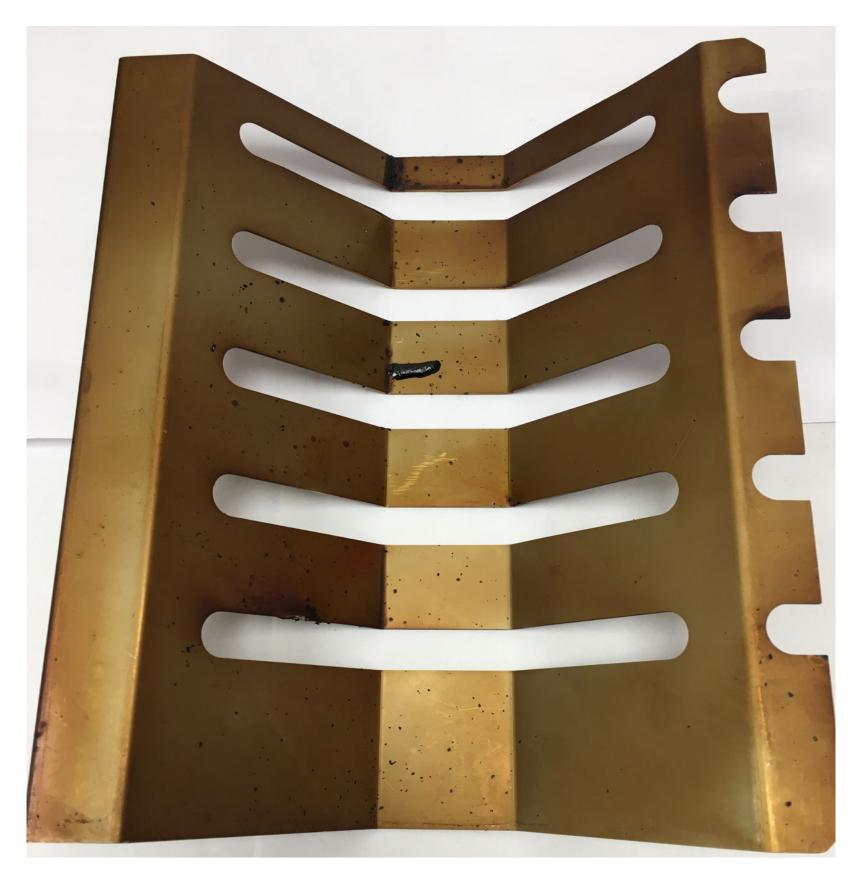
Type of Reflow Oven:

REHM

Components Before Cleaning









COMPLETE CLEANING SOLUTION BY DCT

Water-based cleaning agent Decotron® T391



Cleaning system <u>AirJet® 594 CRD</u> with Air Bubbling Technology



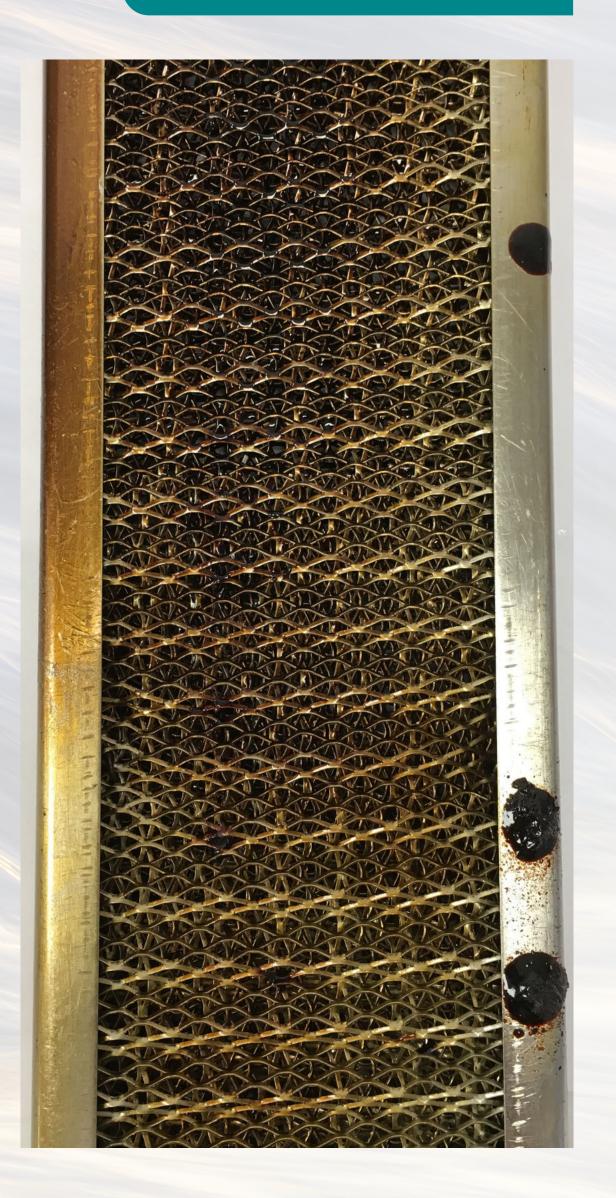


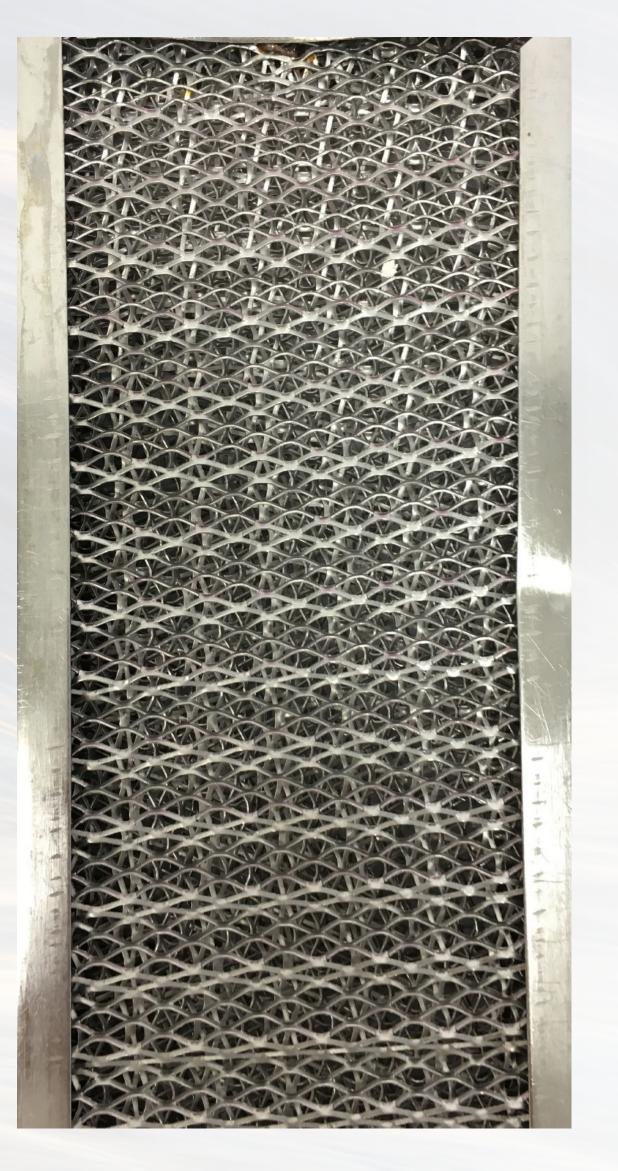


Rinsing: DI water / 10 min / 25°C

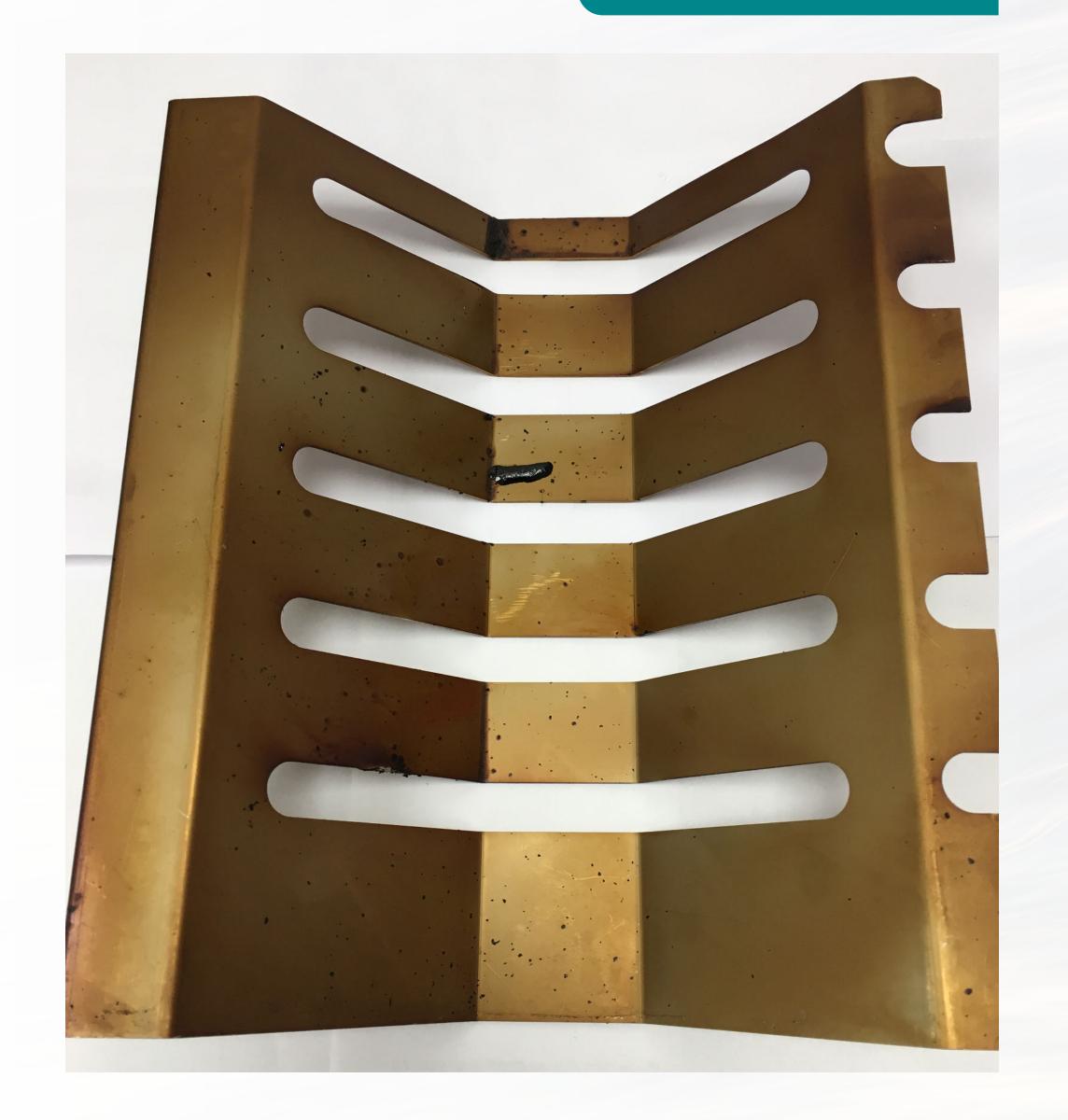
Drying: 15 min / 80°C / hot air

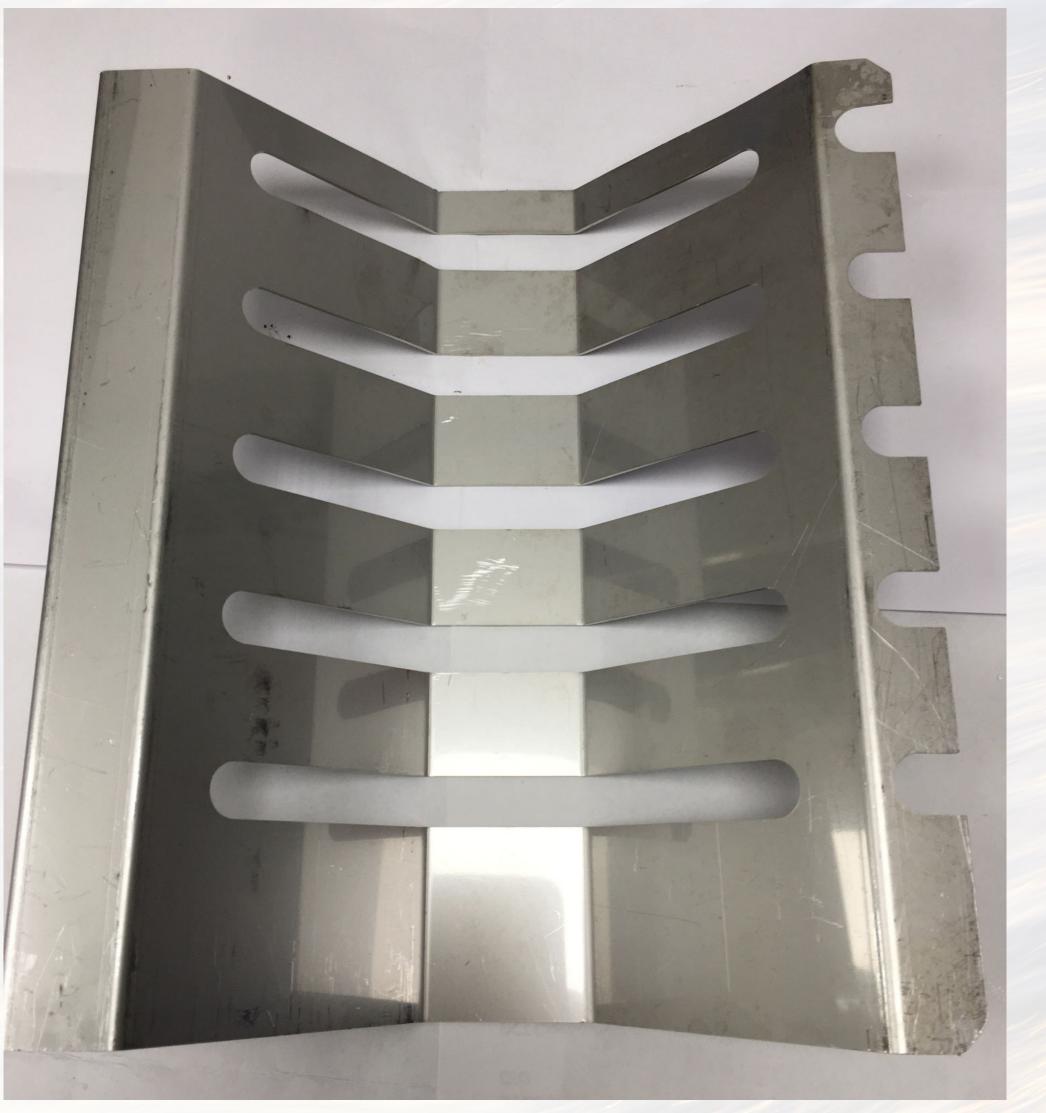
BEFORE Cleaning -> AFTER Cleaning





BEFORE Cleaning -> AFTER Cleaning





www.dct.cleaning



RECOMMENDED CLEANING AGENT

Decotron® T391





T300SA, which is a cleaning agent developed for the cleaning of flux residues and reflow oven parts.

Most parts were perfectly cleaned in only 10 minutes due to double power of air bubbling technology performed by our AirJet® 594 CRD and by the usage of Decotron® T300SA.

However, the copper surfaces of tested components remained covered by a white powder.

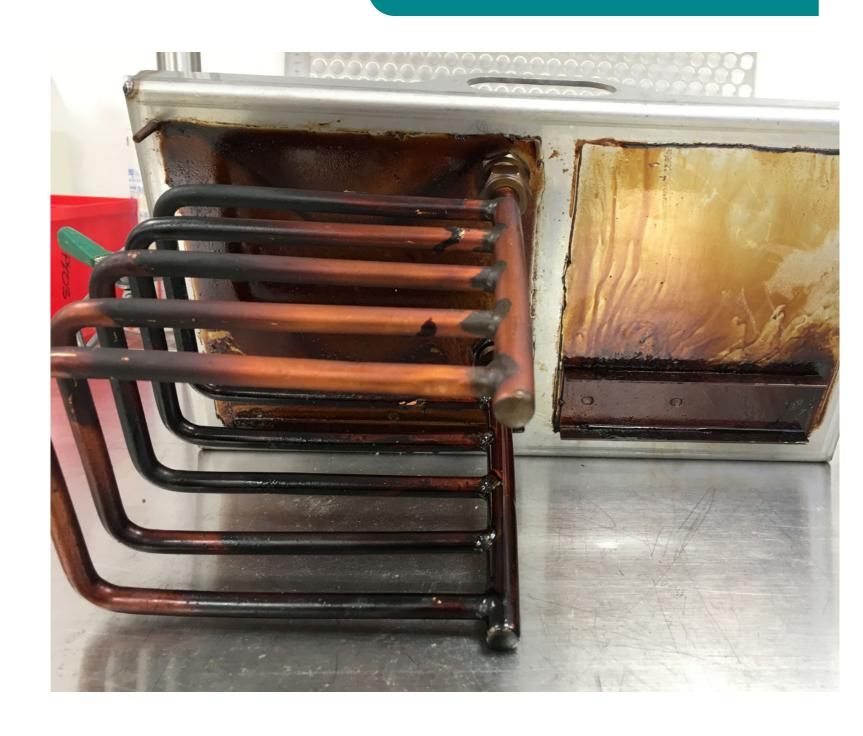
As we always struggle for a perfect solution, we continued in our test with another cleaning agent

Decotron® T391 to remove the white powder from copper surfaces. With the usage of Decotron® T391 we reached excellent cleaning results!

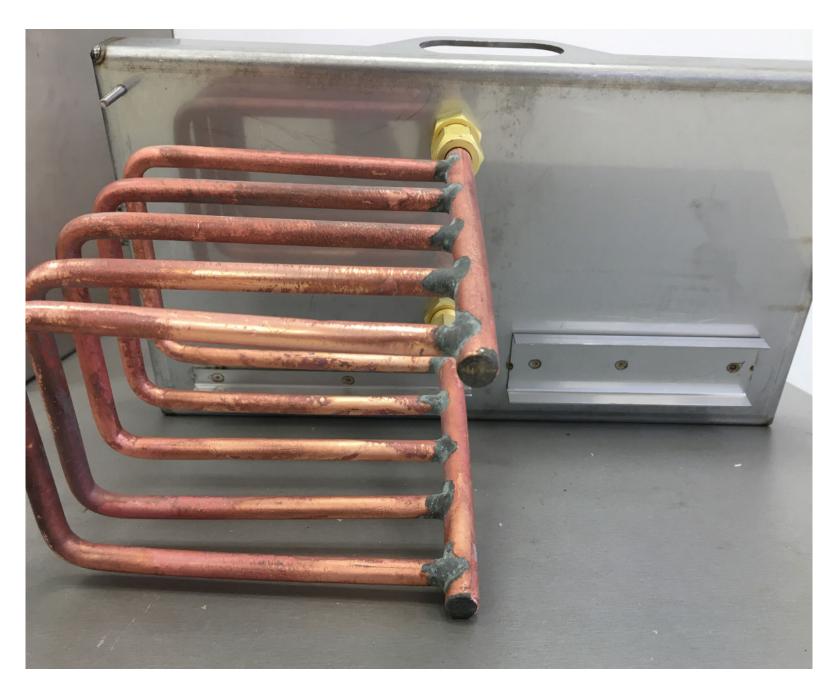
BEFORE Cleaning

AFTER Cleaning with Decotron® T300SA

AFTER Second Cleaning with Decotron® T391









RECOMMENDED CLEANING SYSTEM

AirJet 594® CRD

with Air Bubbling Technology



Technical data sheet



RESULTS OF TESTING

Success rate: 100%

The customer has been excited as we provided him with a functional and complete cleaning solution. Our AirJet® 594 CRD has massive capacity, which is necessary for cleaning reflow oven parts. It represents also a fully-automatic cleaning process. Moreover, the investment in the cleaning system will pay for itself in one year in comparison with the price of regular external cleaning.

