

FILTER RECOMMENDATION

for ZESTRON®/ VIGON® Products

Appropriate filtration is recommended to improve the high bath loading capability of ZESTRON® and VIGON® cleaning agents.

ZESTRON recommends the use of a 20" in length filter rather than the 10" filter (if mountable in the machine) to reduce the frequency of filter replacement.

Removal of solder paste:

Due to solder ball size distribution according J-STD 005 table 2A+2B

Solder paste type	Minimum solder ball diameter [μm]	Filter pore width [μm]	Flow rate L/h at Δp=0.2 bar 10"	Flow rate L/h at Δp=0.2 bar 20"
1	75	20	3200	6400
2-4	20-45	10	3000	6000
5	15	5	2500	5000
6	5	3	1800	3600

We recommend a 10 μm pre-filter to avoid overloading of the fine filter by misprint cleaning of solder paste types 5 and 6.

Removal of SMT adhesives:

Recommended filter size: 10 μm / 20"

Melt-Blow filter cartridges made of polypropylene with Multi-Layer-Structure in PP- or stainless steel boxes are recommended.

Removal of flux residues from assemblies:

Recommended filter size: Pre-filter 20 μm

Fine filter 5 μm

Specifications: Melt-Blow filter cartridges made of PP with Multi-Layer-Structure (e.g. WFBM Wolf Filtertechnik or original replacement filter of equipment manufacturer)

Volume rate: 1 bath volume / cycle time *

Cartridge: PP, stainless steel

* This volume flow is applicable for ultrasonic dip tank applications (a higher volume flow would dissolve air into the medium, whereby the ultrasonic performance would be reduced). In case of spray applications such as spray-under-immersion the volume flow might be higher. The volume flow determines the choice of the filters as shown in the table above.

Special applications:

Cleaning trials can be performed at one of ZESTRON's Global Technical Centers. Please consult with ZESTRON's process engineers for cleaning trials: Phone +49 841 635-26; Email: techsupport@zestron.com

How often shall the filter be replaced:

- Measured with a manometer located before the filter (cartridge)
→ A filter change is required when the pressure shows an increase of +0,8 bar of the basic value