

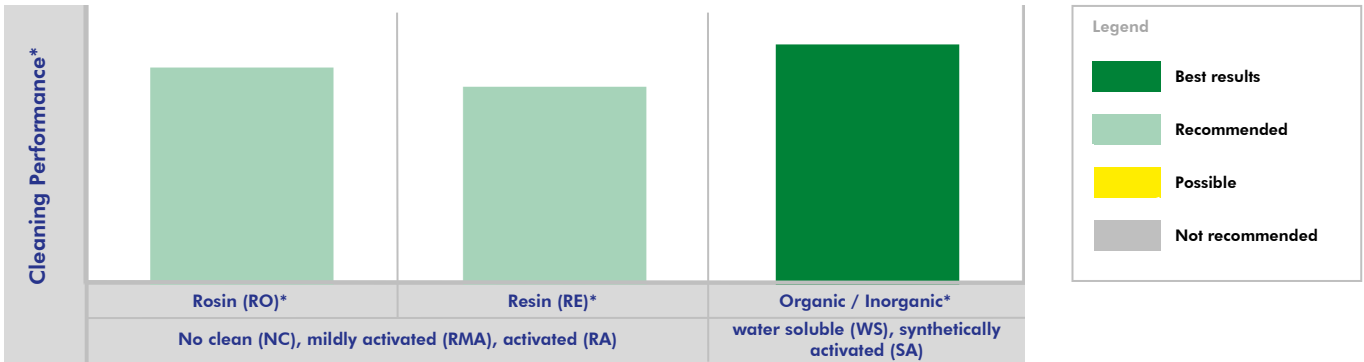
VIGON® A 250

Water-based defluxing agent with mild formulation



VIGON® A 250 is a water-based MPC® cleaning agent designed to remove flux residues and solder pastes from electronic assemblies. Due to its mild formulation, the cleaning agent is especially suitable for longer exposure times. VIGON® A 250 is developed for usage in spray equipment (e.g. “dish washer” systems) as well as dip tank equipment. It is also recommended for cleaning Power LEDs after die attach.

Areas of application – PCBA Defluxing



* J-STD-004

Advantages compared to other cleaners

- Due to its mild formulation, VIGON® A 250 is especially suitable for longer exposure times.
- Surfactant-free formulation prevents the formation of white residues on cleaned parts and cleaning equipment.
- Optimal flux removal after die attach increases wire bonding quality as well as light conversion and life time of Power LEDs.
- Due to its excellent filterability VIGON® A 250 features an extended bath life.
- Has no flash point and does not require an explosion-proof environment.
- Does not foam in spray applications and has a low odor.

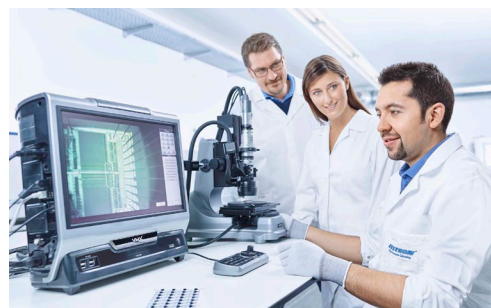
Process Steps

| Cleaning Process | Parts | 1. Cleaning | 2. Rinsing | 3. Drying |
|-------------------------------|------------------------------|--------------|------------|----------------------------|
| Spray-in-air (batch & inline) | PCBAs, (Hybrids, Power LEDs) | VIGON® A 250 | DI-water | Hot air or circulating air |
| Dip tank (US) | PCBAs, (Hybrids, Power LEDs) | VIGON® A 250 | DI-water | Hot air or circulating air |
| Centrifugal, Dip tank (SUI) | Power LEDs | VIGON® A 250 | DI-water | Hot air or circulating air |

Independent Test Center - Largest choice of leading machines, chemistry & analytics



Machine Test Center



Analytical Center

Visit our Machine Test Center and clean your electronic assemblies in cleaning machines of leading international equipment suppliers.

Your benefits:

- You are introduced to the cleaning machines & you clean your PCBAs under production conditions supported by your ZESTRON process engineer
- You check the cleaning results immediately on site (ROSE, optionally IR, IC, SEM/EDX etc.) for maximum comparability & result transparency
- You receive a process guarantee including detailed process parameters for the machine/cleaner combination that we recommend

Contact ZESTRON's process engineers for cleaning trials:

Europe: +49 8453 41995 318; techsupport@zestron.com / South Asia: +604 (3996) 100; support@zestronasia.com

Technical Data*

| | | |
|---|--------------------------------|---------------------------|
| Density | (g/ccm) at 20°C/68°F | 1.00 |
| Surface tension | (mN/m) at 25°C/77°F | 29.5 |
| Boiling point | °C/°F | 100 - 212°C / 212 - 414°F |
| Flash point | °C/°F | None until boiling |
| pH value | 10g/l H ₂ O | 10.0 |
| Vapor pressure | (mbar) at 20°C/68°F | Approx. 20 |
| Cleaning temperature | °C/°F | 40 - 60°C / 104 - 140°F |
| Solubility in water | | Soluble |
| Application concentration ¹ (inline) | Concentrate | 15 - 20 % |
| Application concentration ¹ (batch) | Concentrate | 20 - 30 % |
| HMIS Rating | Health-Flammability-Reactivity | 1 - 0 - 0 |

* Please note that the following information represents VIGON® A 250 at 20 % concentration.

¹ The concentrate of VIGON® A 250 has to be diluted in DI-water.

Product Features & Cleaning Standards

| | |
|--|--|
| <p>100% compliance with EU guidelines (RoHS 1, 2 & 3, WEEE)</p> | <p>Electronic assemblies cleaned with VIGON® A 250 in a ZESTRON specified process meet the following industry standards:</p> <ul style="list-style-type: none"> ■ IPC-A-610 Visual cleanliness ■ J-STD 001 Ionic and resin cleanliness and foreign object debris ■ IPC 5704 Cleanliness requirements for bare boards ■ IPC-Hdbk-65B Guidelines for cleaning of printed boards and assemblies <p>A cleaning process using VIGON® A 250 can help to reduce particle contamination.</p> |
| <p>Extensively tested and suitable for cleaning lead-free solder pastes</p> | |
| <p>MPC® Technology ensures an extremely long bath life when used in a closed loop system</p> | |
| <p>Product is free of any critical substances according to SIN & SVHC lists</p> | |

Environmental, health & safety regulations

- VIGON® A 250 is water-based and biodegradable.
- VIGON® A 250 is formulated free of any halogenated compounds and environmentally friendly.
- Refer to the SDS for specific handling precautions and instructions.

Availability & Storage

| | |
|-----------|---|
| 1 Liter | ✓ |
| 5 Liter | ✓ |
| 25 Liter | ✓ |
| 200 Liter | ✓ |

- Available as concentrate
- Store VIGON® A 250 in the original container at a temperature between 5 - 30°C / 41 - 86°F.
- The product has a minimum shelf life of 5 years in factory sealed containers.



Further product information

- **Material Compatibility**
Please review the Material Compatibility overview before using the cleaning agent.
- **MPC® Technology Sheet**
Detailed information on MPC® Technology.
- **Filter recommendation**
To take full advantage of MPC® Technology and further extend the bath life of VIGON® A 250, filtration is recommended.
- **Safety data sheet**

Available Process –Optimization –Products

To ensure a stable running cleaning process, it is important to monitor cleaning agent concentration and regular bath treatment. For VIGON® A 250 a variety of process support products are available:



Concentration measurement:

- ZESTRON® EYE for automated real-time concentration monitoring providing 100% traceability,
- ZESTRON® Bath Analyzer 10 a manual test method for fast and reliable checks on cleaner concentration.



Cleaning agent regeneration:

- ZESTRON® Adsorber HM1 allows for the adsorption of heavy metals in your cleaning process when VIGON® A 250 is applied.