



TECHNICAL DATA SHEET

Halogen-free scatter salt - REDOX

TECHNICAL DATA

Appearance	Off-white solid flakes
Odour	Characteristic
Shelf - life	24 months

GENERAL INFORMATION

While nitrogen gas is not used during the wave soldering of PCBs the tin bath surface will create a layer of metallic oxides. The operator will generally remove the tin dross with a special trowel or spoon. Since the removed dross contains a significant quantity of liquid tin, it should be separated in a time-intensive extraction process, or it will be dumped. While using our REDOX halogen-free scatter salt, most of the metallic components in the dross will be dissolved and can be returned to the process.

APPLICATION METHOD

Application area:

REDOX is a halogen-free scatter salt developed for cleaning oxide layers and dross in solder baths used in wave soldering machines.

Purpose:

To remove metallic oxides and impurities that accumulate on the solder bath surface, restoring the bath's chemical balance and improving process stability.

Instructions for Use:

1. Preparation:

- Ensure the solder bath is at normal operating temperature.
- Avoid applying REDOX while the solder wave is active or circulating at high turbulence.
- Use appropriate PPE (heat-resistant gloves, face shield, and extraction hood) during application.

2. Application:

- **Sprinkle REDOX gradually** over the surface of the solder bath, **directly onto the oxide layers**

Fecha de revisión: 03/05/2025

TECHNICAL DATA SHEET

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or contaminated areas.

- Apply **slowly and evenly**, using a spoon or metal scoop, to allow the salt to react progressively with the oxides.
-  **Do not pour the salt all at once.**
A sudden addition may cause an **energetic reaction**, generating **intense fumes** due to the rapid reduction process.

3. Reaction phase:

- REDOX will react with the existing oxides, reducing them chemically.
- The dissolved metallic components will return to the bath, while the organic residues and minor metallic impurities will form a **floating dross layer** on the surface.

4. Removal:

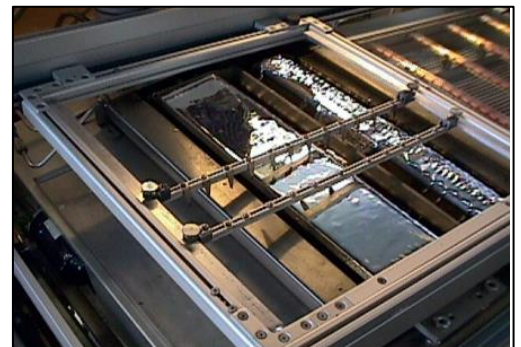
- After the reaction stabilizes, **remove the dross** with a stainless steel spoon or skimmer.
- Allow the residue to cool down before disposal. Once solidified, it can be safely discarded as solder waste according to local environmental regulations.

RESULT:

- Cleaner solder bath surface
- Reduced dross formation
- Improved solder flow and wetting performance
- Extended bath lifetime

CUSTOMER ADDED VALUE:

- Halogen-free.
- Enhanced reaction capacity with the metallic oxides.



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STORAGE AND SAFETY PRECAUTIONS

- Protect from sunlight.
- Keep tightly closed.
- Do not handle until all safety precautions have been read and understood.
- Turn on the extraction system before use.
- Read the safety data sheet before use.
- Be aware of all workplace safety restrictions.

AVAILABLE FORMATS

- 800g. plastic jar.

NOTE: Regular use of REDOX helps maintain optimal solder quality and reduces alloy losses caused by oxidation during continuous wave soldering operations.

Our recommendation is based on wide technical studies and a great practical experience. However, due to the wide variety of materials and working conditions in which our products are used, we do not assume any responsibility over the obtained result or caused damage due to misuse.

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