



SUPERIOR No. 141



SOFT SOLDERING FLUX

- Non-Hazardous, water-based flux.
- Complies with ASTM and CDA specifications.
- Formulated for lead-free alloys.

DESCRIPTION

Superior No. 141 plumbing flux is a creamy, white, water flushable paste that holds its shape and will not slump until being heated above 50°C/122°F. This product was developed as a water-flushable alternative to petroleum-based plumbing fluxes, the current standard.

Superior No. 141 meets ASTM Specification B-813 and complies with Copper Development Association (CDA) requirements. It is a water-based flux that promotes excellent solderability and post-solder removal with lead-free solders.

APPLICATIONS

Superior No. 141 is formulated specifically for use in plumbing applications where Copper and Copper-alloy tubes are being soldered. It is also an excellent choice for Copper pipes used in heating, air-conditioning, mechanical, and fire sprinkler systems.

DIRECTIONS

Superior No. 141 should be applied with a brush or a swab. The flux exhibits the best activity between 93-315°C/200-600°F. Post-solder residues are water-flushable.

The following steps are recommended for optimum soldering results:

- ➊ Remove any oil, grease, or other contaminants from the surface to be soldered.
- ➋ Apply flux to joint by swabbing or brushing to area being soldered.
- ➌ Preheat or air-dry area to be soldered after flux has been applied to activate the flux and yield optimum soldering characteristics and reduce or eliminate spattering.
- ➍ Apply or feed solder wire to area being soldered.
- ➎ Clean flux residues from soldered area using a water rinse or by wiping off with a wet cloth.

Superior manufactures quality fluxes. Our business is solving problems.



PHYSICAL PROPERTIES

Form	Paste
Color	White
Viscosity	117,000 cps
Specific Gravity	0.99 @ 20-25°C/68-77°F
Density	8.22 lbs./gallon
pH	1.00 ± 1.0
Soldering Temperature Range	93-315°C/200-600°F
Melting Point	140°F/60°C
Freezing Point	14°F/-10°C
Residues	Water Flushable

This Product is RoHS Compliant

FILLER METALS

Superior No. 141 is formulated for Tin/Silver and Lead-Free solders. It may also be used with Tin/Lead solders.

SPECIFICATIONS

Superior No. 141 meets ASTM Specification B-813 and the Copper Development Association (CDA) requirements.

SAFETY PRECAUTIONS

Superior No. 141 contains no petrolatum, but contains small amounts of Zinc Chloride (CAS 7646-85-7) and should be handled with care.

When soldering with **Superior No. 141**, adequate exhaust ventilation should be provided. Avoid contact with eyes, skin, and mucous membranes. Always wear NIOSH approved safety equipment when working with chemicals. Store in plastic containers away from heat.

Disposal of raw flux and flux residues must be carried out in accordance with local and federal environmental guidelines.

Refer to Material Safety Data Sheet (MSDS) for additional safety information.

Superior No. 141 has a two (2) year shelf life.

The information contained herein is based on data considered to be accurate and is intended for use by persons having technical skills at their own discretion and risk. Since conditions of use are outside of Superior Flux & Mfg. Co.'s control, we cannot assume liability for results obtained or damage incurred due to misuse, nor can we assume customer liability.

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