



SUPERIOR NO. 592



ZINC-BASED BROMIDE RADIATOR ASSEMBLY FLUX

- Zinc-Based, Bromide-Based Flux for Copper-Brass Radiator Assembly
- Excellent Torch Soldering and Header Dipping Flux
- Unique Hybrid Combination Limits Green Corrosion after Soldering
- Highly Concentrated Formulation to Permit Great Dilution
- Very Heat Stable Formulation to Tolerate Wide Range of Torch Heating Conditions

DESCRIPTION

Superior No. 592 is a zinc-based, bromide-based, inorganic salt type flux, specifically designed for high temperature copper-brass radiator assembly soldering. The high concentration of the Superior No. 592 flux allows for a great amount of dilution resulting in huge savings for the production operation. **Superior No. 592** leaves residue that is easily removed with hot water or specialty cleaning chemistry (available from Superior). Its unique hybrid chemistry limits brass turning green after soldering.

APPLICATIONS

Superior No. 592 was formulated specifically for a wide range of torch soldering copper-brass radiator assembly operations. The **Superior No. 592** formulation works well with all soft solders used for radiator assembly from very high lead-based solders to lead-free solders. Normal flux application is total immersion of the brass part or flux brush application to the part.

DIRECTIONS

- ① **Superior No. 592** is normally applied at room temperature using flux immersion.
- ② For header dip applications, preheat the **Superior No. 592** flux above the solder pot to remove as much water as possible before immersing in the solder to eliminate solder splattering.
- ③ The unique hybrid chemistry of **Superior No. 592** limits brass turning green after soldering. To completely remove **Superior No. 592** residue, use **Superior No. 5700SFM** brass cleaner followed by water rinsing and drying.

Superior manufactures quality fluxes. Our business is solving problems.



PHYSICAL PROPERTIES

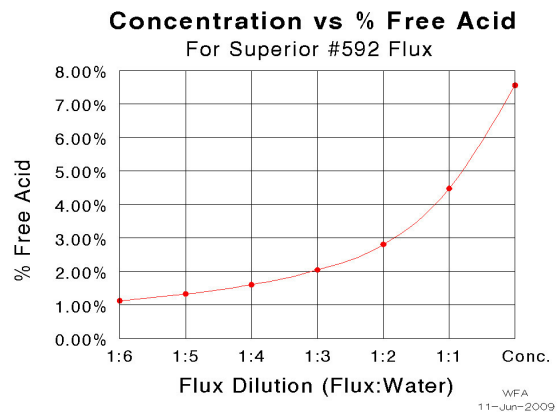
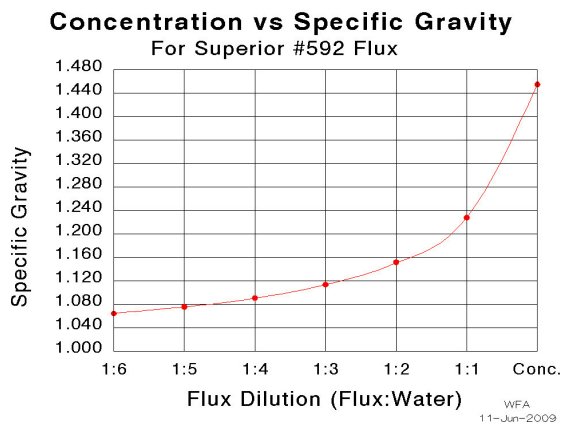
Appearance	Clear, Colorless to Yellow
Specific Gravity	1.455 ± 0.015 @ 20-25°C/68-77°F
Density	12.1 Lbs./Gallon @ 20-25°C/68-77°F
Free Acid	7.5 ± 1.5% HBr
Surface Tension	32 dynes/cm minimum
Recommended Soldering Range	260-427 °C/500-800 °F
Odor	Mild
Flash Point	None
Freezing Point	None
This Product is RoHS Compliant	

PREPARATION and HANDLING

Superior No. 592 is shipped as a concentrate to be diluted:

- For header dipping, dilute 1:2 – 1:4 (flux : water)
- For tank to core and other brass torch soldering assembly operations, dilute 1:1 – 1:2 (flux : water)

For greater strength, lower dilution ratios should be used. Mix well when diluting and check specific gravity with a hydrometer before use. The solution will not separate on standing.



SAFETY PRECAUTIONS

Since **Superior No. 592** attacks many metals to some extent, it is recommended that polyethylene, PVC or fiberglass reinforced polyester containers be used. Any machinery or construction materials, which might be exposed to direct contact with the flux, should also be able to withstand acids.

This product, during handling or use, may be hazardous to health or the environment. Read the Material Safety Data Sheet and warning label before using this product.

Superior No. 592 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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**Superior Flux
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