



# TIN-ALL™ FREE PASTE

## LEAD FREE TINNING COMPOUND

- Reduce airborne and waste-water lead
- Tin Difficult Jobs With Ease
- Save Time & Labor
- High strength
- Excellent Flow

**High Quality Solder** - The solder used is state-of-the-art with the best properties available. It's tensile and yield strengths are much greater than tin-lead solders. The melting point is 418° F. with a solidus-liquidus range from 410° - 418° F. This narrow range is much more desirable than the wide range found in the tin-lead alloys most often used in radiator shops. For example, 35/65 solder has a range of 361° - 477°. Field testing has shown no apparent difference in use compared to tin-lead solders. This solder is compatible with all tin-lead solders already in use on radiators and all zinc and non-zinc fluxes.

**Environmentally Friendly** - Tin-All™ Free can't eliminate the lead already in solder on the radiators that come into your shop. But you can at least not add to the lead problem. About half of the lead in the air and water will come from new solder used in repair work.

**Labor Savings** - Tin-All™ is a chemical formulation in a creamy paste form which enables its user to clean, flux, and tin metal all in one operation. It is impossible to issue a flat statement as to the time saved in cleaning, fluxing, and tinning; however, many users estimate the figure to be in the area of from fifty to seventy-five percent. Not only does this put more money into your pocket per job by saving labor cost, but, think of the extra time you will have for other work as a result of this efficiency.

**Highly Concentrated** - To achieve these results Tin-All™ uses a high quality fine mesh solder which is suspended in a highly concentrated homogeneous paste flux. Without the solder, Tin-All™ would be the finest fluxing cleaner that could be made. With the solder however, Tin-All™ not only cleans stubborn deposits of oxide, sulfide, and other corrosion, but at the same time tins or presolders the work. The elimination of acid alone prevents health problems and prolongs the life of expensive equipment in your shop. If Tin-All™ contains more solder than you

need for a job it can be diluted and still have its good fluxing ability without putting on as much solder. Either way, shop owners have found Tin-All™ to be the most economical way to go.

**Less Waste** - Since Tin-All™ is a paste, it eliminates many of the drawbacks of a powder. There is less waste since the paste clings readily to an acid swab and is not blown away from the work by the torch. Tin-All™ will not become hard or lumpy from moisture in the air. The homogeneous form will not let the solder settle to the bottom of the can to be wasted, as often happens with a powder when it is mixed with water. Tin-All™ is ready to use when you need it with no mixing or mess to waste time. Tin-All™ ends up on the radiator instead of the floor or test tank.

**Directions** - Tin-All™ users report two methods generally employed in its use. For hard to get at spots, such as leaks down in the core, apply Tin-All™ first with a swab. Then heat, allowing the Tin-All™ to flow over the surface, fluxing and tinning as it flows. Without extra work you have a higher quality job than could otherwise be accomplished. The second method is to heat the work with the torch first and then apply Tin-All™ with an acid swab as in ordinary use of fluxes. This method is most often used on larger areas. Tin-All's good fluxing ability can often save you the time needed for glass bead blasting. However, on tanks and header plates that have been glass bead blasted Tin-All™ tins so quickly and easily that it has to be seen to be believed. The combination of Tin-All™ and your glass beads machine gives the ultimate in fine workmanship.

**Packaging** - Packaged in 4.5 pound metal cans, 9 per case and individual 20 pound metal cans.

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