



# **ULTRA-STRIP™**

## **Ultrasonic Stripping Compound**

**BUFFERED - Maintains proper strength, prevents disintegration.**  
**EXTRA-ACTION STRIPPER - Cleans corrosion quickly like an acid.**  
**SPECIAL WETTING AGENT - Cleans faster at high temperatures.**  
**CHELATING AGENT - Penetrates solder bloom and rust faster.**  
**WATER CONDITIONER - Prevents white residue that slows soldering.**

Ultra-Strip is a heavy duty paint stripper, degreaser and cleaner for use in cleaning radiators by ultrasonics. The compound is caustic based with water conditioners, chelates, buffers and wetting agents added. An additional stripping chemical makes this the fastest and most thorough cleaning product on the market.

Ultrasonic cleaning works by compression and rarefaction of the solution at the peaks and troughs of the sound waves as they travel through the water. The rarefaction (expansion) produces a low pressure area and a very tiny bubble. This process is called cavitation. When the compression phase occurs the tiny bubble implodes (collapses) and the resulting agitation produces the cleaning. This cavitation is occurring in millions of places continuously so the entire immersed part of the radiator is thoroughly cleaned.

The density and surface tension of the cleaning solution affects the performance of cavitation. In addition, increased temperature will improve the chemical action. The solution density is usually measured as French degrees Beaumé of specific gravity. The range is from 10.75 to 13.5° Bé. The temperature range is 170 to 200° F.

Ultra-Strip offers many advantages over plain caustic and other brands of ultra-

sonic compounds.

1. A special water conditioner sequesters hard water minerals so that no white residue is left on radiators after stripping. This saves the time spent trying to get solder to flow over residues and prevents waste of flux and solder.
2. A Chelating Agent dissolves rust and solder bloom to reduce the time spent rodding out tubes and glass bead blasting headers. Solder flows on better and less flux is used.
3. An advanced high temperature wetting agent penetrates and loosens paint and corrosion faster. Better results are achieved in less time.
4. Buffers maintain the proper pH and keep the solution at optimum strength longer. You will add chemical less often and reduce the risk of caustic disintegration of soldered joints.
5. An extra action stripping chemical cleans metal faster and better than caustic alone. This additive cleans like an acid to remove corrosion that caustic cannot. Radiators are cleaner and easier to solder. The cleaning action is also speeded up.

**Directions:**

Start with 3/4 lb. of Ultra-Strip per gallon of water in the unit. This is 7% caustic as measured with the Simplex Test Kit or 10.75° Bé. on the hydrometer. Up to 1 lb. per gallon (9% caustic or 13.5° Bé.) may be used. Use the test kit to figure how much to add to replenish the solution. (The hydrometer is of no use in measuring a used solution. Only use it when starting fresh.) Change the water every two to four weeks as required. The usual time required to clean a radiator is 7 to 15 minutes. Each unit varies due to wattage and transducer placement. Do not put aluminum components in Ultra-Strip. Ultra-Strip has a pungent odor when first put in the tank. After degassing the odor goes away.

If you do not know the size of your tank in gallons use the following method to calculate it. Measure the length, width and depth of the solution in inches. Multiply the length x width x depth and divide the result by 230 to give gallons. For example: If the dimensions are 54" by 10" by 17", multiply the three numbers giving 9,180. Divide by 230 giving 40 gallons. To figure the number of pounds to charge the tank, multiply by .75 lbs/gal. giving 30 pounds.

Packed in 35 pound plastic pails, 100 pound kegs and 350 pound drums.