



AS-44



◆ Formulated For Hot Vat Operations

AS-44 is a powdered, heavy duty hot-soak cleaner designed for use on ferrous metals to remove grease, oil, dirt, sludge, loose carbon deposits, light rust, engine varnish, engine enamels and paints. It is formulated to be economical and effective for use in many hot-soak vat operations, maintaining its pH of 13.0 in various mix ratios. This makes AS-44 a great product for automotive and diesel repair shops, machine shops and remanufacturers.



◆ Cleans Through Saponification

AS-44 is composed of highly alkaline builders that saponify (break down) greases and oils into a soluble soap. The soap aids in the cleaning process by breaking the oil and grease present on the metal into tiny fragments that are suspended in the solution of the AS-44 and water. Because of the high alkalinity of these builders, they are not safe for use with certain soft metals such as aluminum, galvanized or Babbitt.

◆ “The Claw Effect”

Mixed in with the alkaline builders and the biodegradable emulsifiers, is a special chelating agent that aids in the cleaning process. The claw-like chelating agent surrounds metal ions present in the solution and “disarms” them, reversing their charges so that they cannot react with any of the other cleaning agents. An added benefit of the chelating agents in AS-44 is that they aid in the process of stripping paint and preventing flash re-rusting.



◆ Economical and Efficient

The standard amount of AS-44 added to a vat mixture is 24 ounces per gallon of water; however the amount of product used can be manipulated depending on the level of cleaning. Light cleaning applications may call for 8-12 ounces per gallon of water, whereas heavier cleaning applications or even stripping applications recommend 12-32 ounces per gallon of water. AS-44 is 100% active regardless of the concentration level, meaning none of this product is filler and every bit of it is useful to getting the job completed.

**Made In The
U.S.A.
Since 1922**

DANGER: POISON
CAUSES BURNS, HARMFUL OR FATAL IF SWALLOWED
FOR INDUSTRIAL OR COMMERCIAL USE ONLY

PRECAUTIONS:

Avoid contact with skin, eyes, or clothing. Avoid breathing dust or mist. Use with good ventilation. When handling wear face shield or goggles, rubber gloves and protective clothing. While mixing, add slowly to surface of water. DO NOT use to clean aluminum, galvanized, brass, bronze or Babbitt metal as they may be damaged. Wash thoroughly after handling as contact exposure can cause burns that are not immediately visible. Consult SDS for more detailed information on the safe handling of this product.

DIRECTIONS FOR USE:

- 1) Water in the tank should be warmed between 80°F and 90°F.
- 2) Pour desired amount of AS-44 into tank while stirring to prevent lumping. Avoid splashing. For light to medium duty cleaning, use at a rate of 8-12 ounces per gallon of water. For heavy duty cleaning and stripping, use at a rate of 12-32 ounces per gallon of water. Normal operations, use at a rate of 24 ounces per gallon of water.
- 3) Stir all AS-44 to dissolution and then apply more heat. For most operations, a vat temperature of 180°F is recommended, though depending on the level of cleaning the temperature may range from 150°F to 200°F. NEVER ADD AS-44 TO A HOT SOLUTION AS BOIL-OVER MAY OCCUR.
- 4) As necessary, skim off any contaminants that may collect at the surface of the vat.
- 5) Approximately once a week, but depending on the level of cleaning, make-up AS-44 will need to be added to the vat to replace that which is lost through reactions. Add AS-44 at a rate of ½ ounce per gallon of water.
- 6) To avoid overconcentration, additional water may need to be added to the vat to replace evaporated water.

HOW TO DETERMINE THE AMOUNT OF PRODUCT NEEDED TO MAKE A VAT

- 1) Measure the length, width and depth of the vat (inches or feet). When measuring the depth, measure from the top of the working solution to the bottom of the vat, NOT from the top of the vat to the bottom. Do not place the tape measure in the vat; measure from outside.
- 2) To determine the amount of working solution in gallons multiply:
$$\text{Length (ft)} \times \text{Width (ft)} \times \text{Depth (ft)} \times 7.48 = \text{gallons of working solution}$$

Or

$$\text{Length (in)} \times \text{Width (in)} \times \text{Depth (in)} \times 7.48 \div 1728 = \text{gallons of working solution}$$
- 3) To determine the amount of product needed in pounds, multiply the gallons of working solution by the recommended product concentration (16 ounces = 1 pound):

For example:

Recommended product concentration is 12 ounces (.75 pounds) per gallon of solution:
Vat measurement: 10 ft x 5 ft x 3 ft x 7.48 = 1122 gallons x .75 = 841.5 pounds of product

TEXAS REFINERY CORP

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