



# D-45 NF

## ◆ Multi-Functional

D-45 NF is a powdered cleaner designed to remove light to medium petroleum soils and animal fats (i.e. grease, sludge, grime). A special blend of cleaning agents in D-45 NF make it an ideal cleaner for use in spray cabinets; however in varying concentration levels, it has been found to be a suitable cleaner for use in hot vats and for general purpose cleaning. The pH for D-45 NF typically measures 11.0 – 12.0 in various use concentrations.

## ◆ Special Formulation For Maximum Effectiveness

D-45 NF is formulated with a special blend of wetting agents, water softening agents, alkaline detergents and foam control agents. The wetting agents in D-45 NF help to reduce the surface tension of the solution, allowing the solution to penetrate and dissolve the grease quicker and more effectively. Water softening agents are used in D-45 NF to capture the dissolved grease and oil and force them out of the solution. This process aids in allowing the detergents in D-45 NF to interact with the surface of the metal for a more efficient clean. Foam control agents help to keep the product from foaming while in solution.

## ◆ Safe on Aluminum and Other Metals

Because D-45 NF is not formulated for heavy duty cleaning, it is safe to use not only with ferrous metals, but soft metals such as aluminum. Ideally, D-45 NF is best suited to clean aluminum metals in spray cabinets; however in lower temperatures, D-45 NF can be used in a hot vat to clean aluminum metals.

## ◆ Efficient at Multiple Concentration Levels

Whether 1 ounce or 6 ounces of D-45 NF is needed per gallon of water, it is 100% active and 100% soluble in any concentration. Typical concentration levels for spray cabinet cleaning recommend 2 ounces of product per gallon of water; though anywhere between 1-4 ounces of product may be recommended depending on the application. In hot vat cleaning operations, the recommended ratio is a concentration of 4-6 ounces of product per gallon of water. Regardless of the application, D-45 NF is easy to use: just dissolve in water and heat.



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**CAUTION: EYE IRRITANT  
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 and avoid splattering. **Always add to lukewarm water** as product generates heat on mixing and may cause boil over.

**Consult SDS for more detailed information on the safe handling of this product.**

**DIRECTIONS FOR USE:**

**1) SPRAY CABINETS:**

For many operations, 2 ounces per gallon of water is best, though anywhere from 1-4 ounces may be recommended. When mixing, D-45 NF should be added to lukewarm water (80°F - 90°F). Ideal solution temperature should be 160-200°F. Makeup D-45 NF may be needed as product is lost during reaction. How often this occurs and how much product is added will vary by process.

**2) HOT VATS:**

4-6 ounces of product per gallon of water is recommended for cleaning both ferrous and non-ferrous metals. When mixing, D-45 NF should be added to lukewarm water (80°F - 90°F). The ideal solution temperature for ferrous metals is at or near the boiling point; whereas aluminum and other non-ferrous metals should be cleaned in a temperature between 160°F and 180°F.

**3) GENERAL PURPOSE CLEANING:**

For any general purpose cleaning operations, a concentration of 1-4 ounces of D-45 NF per gallon of either hot or cold water is recommended.

**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

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