

Mi-Clean 9 NFL

Mi-Clean 9 NFL is a heavy-duty alkaline soak/spray cleaner which combines high alkalinity for lasting power, along with high detergency and the ability to suspend large amounts of soil. It is also capable of removing that almost invisible light oxide film often presents on steel to ensure more effective post-treatment of the metal. Its use in hard water does not present a problem.

Features & Benefits

Heavy-duty alkaline	Has the ability to suspend large
soak/spray cleaner	amounts of soil
Capable of removing	Post treatment of the steel
invisible light oxide film	metal is achieved

Operating Conditions

Solution makeup

Mi-Clean 9 NFL solutions can be made up at concentrations ranging from 5 to 10% by volume and is most often used at 6% by volume. Temperatures may range from 160°F. to boiling with increasing temperatures increasing its effectiveness. Boiling temperatures serve to mechanically dislodge otherwise insoluble soils. Replenishments to the hot Mi-Clean 9 NFL should be made cautiously to prevent splashing.

Chemical control

Mi-Clean 9 NFL cleaning solution can be maintained at peak efficiency by a simple chemical control method. It need not be discarded until contamination reaches a high level.

Equipment

Tanks may be fabricated of mild steel or stainless steel and should be insulated to conserve energy. They should also be adequately exhausted. Galvanized iron, copper, copper alloys, tin or aluminum should not be used in the fabrication of equipment exposed to Mi-Clean 9 NFL.

Titration Method

1. Pipette 10 mL of Mi-Clean 9 NFL solution into a 250 mL Erlenmeyer flask.

2. Add 50 mL of Distilled Water and 5 to10 drops of Methyl Orange Indicator,











3. Titrate with 0.5 N Hydrochloric Acid until the color changes from yellow to orange. Calculation

Mi-Clean 9 NFL = mL 0.5 N Hydrochloric Acid X 1.32

Test Kit Method

- 1. Fill Test Bottle ¼ full of water.
- 2. Using syringe, add a 1 mL sample of Mi-Clean 9 NFL.
- 3. Add 5 to 10 drops of Methyl Orange Indicator.
- 4. Add 0.72N Hydrochloric acid test kt solution dropwise until color changes from yellow to orange.

Calculation

I Mi-Clean 9 NFL = drops 0.72N Hydrochloric acid X 0.714

Caution

THIS MATERIAL IS HIGHLY ALKALINE. CAUSES SEVERE BURNS.

Do not get in eyes, on skin or clothing. Avoid breathing dusts or mists. Do not take internally. When handling, wear goggles or face shield. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. For eyes, call a physician.

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

Our people. Your problem solvers.

For more information on this process please call us at 1-800-648-3412 or techservice@hubbardhall.com











Better Results. Less Chemistry.

Hubbard-Hall Inc. • 563 South Leonard Street, Waterbury, CT 07608 • HubbardHall.com • 800-648-3412

Product Bulletin Product Name: Mi-Clean 9 NFL Product Code: 2053021 Revision Date: July 26, 2021













