



Better Chemistry. **Better Business.**

Phos-Seal NC

Product Code: 2900006
Revised Date: 07/27/2009

Phos-Seal NC

Phos-Seal NC is a non-chromated, acidic liquid which is mixed with water and used as the final acidified rinse in an iron or zinc Hubfos operation.

Phos-Seal NC may be used in a spray or immersion phosphating process.

The function of **Phos-Seal NC** is twofold:

- * Remove unwanted residues from the metal's surface which would interface with the adhesion of the subsequent paint, primer or organic coating.
- * Increase the corrosion resistance of the phosphate coating.

OPERATING INSTRUCTIONS

Use concentration: 0.1% (volume) or 12 to 16 fluid oz/100 gal.
Operating temperature of rinse: 120-170 F.
Spray or immersion time: 20 to 60 seconds

Note: Always consult the Hubfos product bulletins for exact position of the **Phos-Seal NC** solution.

Equipment: Mild steel, polypropylene, polyethylene tanks, and mild steel heating coils.

Controls: Operating pH of the **Phos-Seal NC** should be maintained between 4.0 to 4.5 using phosphoric acid or soda ash, depending upon pH.

PH may be maintained with pH meter or with pH paper, with range of 4.0 – 4.5.

For heavy production, discard the solution weekly.

TITRATION PROCEDURE FOR DETERMINING CONCENTRATION

1. Using a graduated cylinder, measure 200 mls of **Phos-Seal NC** solution and place in a 500 ml erlenmeyer flask.
2. Add 4 drops phenolphthalein indicator.
3. Titrate dropwise with 0.1 N sodium hydroxide until solution turns and remains pale pink. (note: 0.1 % **Phos-Seal NC** titrated requires only approximately 2.4 mls)

mls titrated x 0.04 = % Phos-Seal NC



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WASTE DISPOSAL

Dispose of in accordance to local authorities.

CAUTION

Phos-Seal NC is an acidic product. Wear protective clothing, gloves and goggles when handling this product. Flush exposed areas immediately with clean cold water. For eyes, flush repeatedly with water and 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.