



# Hubpik

Hubpik is a concentrated muriatic acid, containing a corrosion inhibitor and an additive used for: de-rusting, descaling and pickling of Steel, stainless steel, cast iron, Monel, and any other metal for which Muriatic Acid is generally used.

## Features & Benefits

Inhibited	Less chance of hydrogen damage
Rapid oxide removal	Higher productivity
Free rinsing	Faster cycle times; higher productivity

## Typical Applications

- Gun manufacturing
- Anywhere hydrogen embrittlement is a concern
- Metal finishing shops
- Spring steel processing

## Operating Conditions

### Concentrations and Maintenance

Hubpik may be used from full strength to any desirable dilution according to the application involved. Regardless of the dilution, no further addition of additives is necessary. Drag-out losses will be automatically compensated for by addition of fresh Hubpik diluted to the proper strength. However, rate of descaling or de-rusting will be influenced by the build-up of iron or other metallic salts. This may be compensated for to some extent by increasing the temperature or the acid strength. Hubpik is not recommended for use as the final acid immersion just prior to electroplating.

Operating temperature	Ambient – 120°F (49°C)
Ventilation	Required when used above room temperature. Suggested when used at room temperature.

### Equipment

Tanks	316 stainless, polypropylene, polyethylene rubber lined or fiberglass
Heating coils/exchangers	Karbate (carbon/graphite) or tantalum



Racks & baskets	Rubber or plastic-coated steel or Monel
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## Test Kit Method

1. Fill sample bottle 1/2 full of water.
2. Add 2 mL of the Hubpik solution to sample bottle.
3. Add 5 to 10 drops of Phenolphthalein Indicator.
4. While mixing the solution, add 12.0 N Sodium Hydroxide drop-wise until a permanent pink color develops.
5. Record number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops } 12.0 \text{ N NaOH} \times 2.1$$

## Waste Disposal

Neutralize solutions of Hubpik to a pH of 6.0 to 8.0 with either caustic soda or soda ash before discarding. To be completely informed on the latest waste disposal regulations for your area; please contact the local authorities.

## Caution

Hubpik is an acidic product; avoid skin and eye contact. Wear protective clothing, gloves and goggles when handling the Hubpik and its made-up solutions. Flush exposed areas immediately with clean cold water. For eyes, irrigate with water repeatedly - call physician.

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