

ACCU-LABS INC.

4831 S. Whipple Avenue
Chicago IL 60632
Phone: 773.523.3100 Fax: 773.523.4008
www.accu-labs.com

A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

361-P PERMANGANATE DESCALER

ACCU-LABS 361-P Permanganate Descaler is a dry, free-flowing, unique blend of highly alkaline salts and surface oxidizing agents that is specially formulated for scale conditioning of hardened steels and stainless steels prior to acid pickling.

ADVANTAGES:

- No Chelators -No gluconates, citrates, or any other complexing agents that might interfere with descaler's maintenance, treatment, or disposal.
- Cost Effective -Reduced etching, pitting, and intergranular attack of surface material, thereby reducing costly rejects of plated work.
- Easy-to-Use -Easy to mix and add: works equally well in manual and automatic barrel, rack, and continuous lines.

OPERATING PARAMETERS:

	Nominal	Range
Bath Concentration	10 oz/gal	8 to 12 oz/gal
Tank Temperature	180°F	160-200°F
Cycle time	10 minutes	10 to 30 minutes

EQUIPMENT: 361-P Permanganate Descaler solutions should be contained in either a steel or stainless steel tank. Exhaust ventilation is highly recommended to remove dust, fumes, or gasses that may generated during makeup and normal production.

MAKEUP: Fill tank $\frac{3}{4}$ full with room temperature (70°F) fresh water. Gradually add the required amount of 361-P Permanganate Descaler while stirring to dissolve completely. Fill tank to its operating level.

CONTROL: Periodic titration checks will allow the user to maintain the effectiveness and economy of 361-P Permanganate Descaler:

1. Remove 100 cc of working solution. Let cool to room temperature.
2. Filter solution of insoluble constituents. **
3. Pipette 1.6 cc of filtered solution and place into a 300 mls Erlenmeyer flask containing 25 cc of DI water.
4. Add 5 grams of potassium iodide into flask, swirl to dissolve. Carefully add 5 cc of concentrated sulfuric acid to sample
5. Add 10 cc of Starch Indicator solution to flask.
6. Titrate with .1N Sodium Thiosulfate solution to a colorless endpoint.
7. Record mls (M).
8. Calculation: $(M) \times 1.00 = \text{oz/gal of 361-P Permanganate Descaler}$

** Not necessary on new makeup

HANDLING CONSIDERATIONS:

Do not take internally. When handling this product do not breathe dust, which is very irritating to the upper respiratory tract. Avoid contact to skin and eyes. Product can cause burns to skin and eyes. Wear clean chemical resistant clothes, chemical goggles, rubber gloves, apron, boots, gauntlets, and full-face shield when handling. Read MSDS prior to using this product.

NON-WARRANTY:

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