
AUROMEX®

TECHNICAL

INSTRUCTIONS

DATA SHEETS

PICTEX PTX 300S DRY ACID SALT

INTRODUCTION

PICTEX PTX 300S is a dry powder, free flowing acid composed of a blend of acids, surfactants and activators making it a unique product for the plating industry. **PICTEX PTX 300S** solutions are used for pickling steel, zinc die casting, copper, brass and aluminum prior to plating, produces smut free active surfaces and can also be used to strip chromium from nickel leaving an active nickel surface. **PICTEX PTX 300S** eliminates the hazards associated with handling of concentrated liquid and can remove very stubborn oxides and scales when used cathodically.

PRODUCT FEATURES

- * Economical – longer effective bath life.
- * Free rinsing
- * Biodegradable surfactant system – reduces effluent control requirement.
- * Consistent high performance – effectively replace most of the commonly used acids and produce cleaner, brighter, smut free surfaces.
- * Versatile – can be used at room or elevated temperatures by either soak or electrolytic application.
- * Easy to store and handle – free flowing powder, readily soluble in water.

EQUIPMENT REQUIREMENTS

- Tanks lining : Rubber lined, Koroseal or plastic lined mild steel tanks are satisfactory.
- Heating coils : Graphite or chemicals lead.
- Ventilation : Not usually necessary unless for heated solution and when using current.

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CHEMICALS CORPORATION

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OPERATING CONDITIONS

Solution Preparation : **PICTEX PTX 300S** is simply dissolved in water in the proportions indicated according to different applications. The following general is given, but for certain mixed metal applications, compromise must be made.

1. General Applications, Acid Dip or Zinc Die castings, copper and brass

Concentration : 50 - 100 g/l
Temperature : Room
Time : 15 - 90 seconds

2. Steel Stampings prior to bright Nickel

Concentration : 100 - 200 g/l
Temperature : Room
Time : 90 seconds

3. Aluminum

Concentration : 200 g/l
Temperature : 70°C
Time : 10 - 30 seconds

4. Nickel Activation

Concentration : 200 g/l
Temperature : 50°C
Time : 10 - 60 seconds

5. Cathodic Pickling

Concentration : 120 g/l
Temperature : 50°C - 60°C
Cathode Current Density : 5 ASD
Anode Current Density : 3.5 - 5 ASD
Anode : Graphite or Chemical lead
Anode to work Ratio : 2 : 1

6. For Stripper Chromium

Concentration : 120 g/l
Temperature : 80°C
Time : 1 - 3 minutes

SOLUTION CONTROLS

Titrate 10 ml sample of **PICTEX PTX 300S** solution to methyl orange endpoint (red to faint yellow) with 0.1N NaOH.

$$\text{ml NaOH} \times 14.5 = \text{g/l PICTEX PTX 300S}$$

WASTE DISPOSAL

PICTEX PTX 300S solution are acidic, may require neutralisation to a specified pH range prior to disposal and depending on local ordinances. Soda Ash or caustic soda may be used for pH adjustment.

CAUTIONS

PICTEX PTX 300S solution are acid and can cause severe burns. Avoid contact with skin and eyes. Avoid inhaling powder. Wear protective clothing and goggles. Flush exposed areas with clean cold water. In case of injury, consult a doctor.