

ECONOVATE S50

Acid Activation Salts

INTRODUCTION

Econovate S50 Dry Acid Salt is an enhanced formula which produces deeper cleaned, smut-free surfaces on various substrates including steel, cast iron, copper, brass, zinc die castings, aluminium, nickel silver and lead alloys. Econovate S50 ensures that subsequent electroplated deposits conform to the most stringent quality control specifications regarding adhesion and surface appearance forming an integral part of a number of pre-treatment cycles.

BENEFITS

- Versatile - designed to replace a variety of conventional mineral acids.
- Higher tolerance to oil contamination than liquid acids .
- Economical - longer life and even more effective cleaning.
- Balanced formulation ensures consistent performance over long periods.
- Safer to use than liquid mineral acids. No fumes.

SOLUTION MAKE -UP

Ferrous Metals

Econovate S50 80 to 150 g/L

Copper and Brass

Econovate S50 50 to 100 g/L

Zinc Based Die-Castings

Econovate S50 20 to 100 g/L

Fill the tank 75% full with clean water and slowly add the correct amount of Econovate S50 while stirring and continue stirring until the solids have completely dissolved.

Finally, make up to the working volume with water and mix thoroughly before use.

OPERATING DATA

Temperature	Ambient. (For certain applications such as heavy scale or corrosion, the solution may be heated up to 80°C.)
Treatment Time	As required, usually between 10 and 120 seconds
Agitation	Mild agitation may be useful to ensure thorough cleaning

EQUIPMENT

Tanks	Moulded polythene or polypropylene. Rubber or PVC lined tanks.
Heaters (if required)	PTFE electric immersion heaters or steam coils.

MAINTENANCE AND CONTROL

The volume of the solution should be maintained regularly by the addition of water.

The solution should be regularly analysed using the method below and maintained by adding fresh salts as required.

The solution should be discarded and a fresh one made-up when the solution is so loaded with metals that replenishment has no effect on cleaning time.

ANALYSIS METHOD

Reagents

1N Sodium Hydroxide.

Phenolphthalein Indicator.

Method

1. Pipette a 25.0 ml sample of the working solution into a 250 ml conical flask.
2. Dilute to 50 ml with de-ionised water and add 2-3 drops of phenolphthalein indicator.
3. Titrate with 1N Sodium Hydroxide to the first permanent pink end point.

Calculation

Titration ml x 5.56 = g/L Econovate S50

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Econovate S50	223006



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