



NEUTRA-CLEAN 68

For Industrial Finishing Applications

DESCRIPTION

Neutra-Clean 68 Soak Cleaner is a neutral pH soak cleaner used to clean nonferrous metal surfaces prior to plating operations and photoresist applications. Neutra-Clean 68 Soak Cleaner is extremely effective in removing organic soils, including hard-to-remove silicone-based hand lotion creams and buffing compounds. Neutra-Clean 68 Soak Cleaner is particularly suited to the following special applications:

Metal Finishing

The neutral pH prevents attack of aluminum, magnesium, or zinc.

Immersion Tin Plating

Neutra-Clean 68 Soak Cleaner eliminates the need to dry copper surfaces prior to Tinposit LT-26 and LT-27 immersion tin plating.

Chemical Machining

Neutra-Clean 68 Soak Cleaner is an efficient cleaner at room temperature, making it easier to prepare metal plates prior to coating with Photoposit™ Positive Photoresists.

ADVANTAGES

- Effective removal of organic soils
- Flexibility of operation
- High yield
- Ease of operation

BATH MAKE-UP

Chemicals Required

Deionized (D.I.) Water

Neutra-Clean 68

The bath make-up concentration of Neutra-Clean 68 is dependant upon the substrate to be cleaned and operating temperature of the bath. The lower the operating temperature of the bath, the greater amount of Neutra-Clean 68 is required.

Metric

Operating Temperature	Neutra-Clean 68
Room Temperature	670 ml/l
38–49°C	500 ml/l
50–65°C	330 ml/l
66–82°C	200 ml/l

U.S.

Operating Temperature	Neutra-Clean 68
Room Temperature	67% v/v
100–120°F	50% v/v
120–150°F	33% v/v
150–180°F	20% v/v

BATH MAKE-UP PROCEDURE

1. Add deionized water to a clean tank.
2. Add Neutra-Clean 68 and mix thoroughly.
3. Adjust to operating level with DI water.

BATH OPERATION

Immerse parts for 3 to 10 minutes and allow to soak. Follow with vigorous rinsing in clean water for one to two minutes. When used at room temperature, agitate the work or solution. When removing “difficult” soil, use the room temperature mix, heating as necessary to remove the soil. For example, silicone-based hand lotion creams require at least 49°C (120°F).

Note: Use vapor degreasing for heavy oil and grease.

BATH MAINTENANCE

Maintain bath volume by additions of water. Replace the bath when copper oxides are not removed within 30 seconds at room temperature (15 seconds for heated baths). For maximum efficiency the pH should be between 6 and 8.5. When the bath moves outside this range, discard.

Note: A precipitate will form as the bath ages. This will not impair the functioning of the bath.

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YIELD

When used accordingly, one gallon of made-up bath can be expected to clean approximately 300 square feet of surface.

PRODUCT DATA

Neutra-Clean 68 Soak Cleaner

Appearance: Clear yellow liquid

pH: 7.0

Specific Gravity at 20°C: 1.20

EQUIPMENT

Tank: 316 stainless steel, pyrex, ceramic, quartz or high temperature plastic such as polypropylene.

Heater: 316 stainless steel, pyrex, ceramic, quartz

HANDLING PRECAUTIONS

Before using this product, consult the Material Safety Data Sheet for details on product hazards, recommended handling precautions, and product storage.

CAUTION! When using immersion heaters, failure to maintain proper volume level can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

STORAGE

Store Neutra-Clean 68 Soak Cleaner only in upright, original containers in a dry area at 10–32°C (50–90°F). Store away from acids and strong oxidizers. Do not store in sunlight. Store away from heat and sources of ignition. Keep container sealed when not in use.

WASTE TREATMENT

It is your responsibility to verify that any procedure complies with federal, state and local laws and regulations for wastewater discharge.

Due to the nature of Neutra-Clean 68 Soak Cleaner, disposal of it, or residues therefrom, should be made in compliance with federal, state and local environmental laws. Contact your Rohm and Haas Electronic Materials Technical Representative for more information.

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UNITED STATES

Marlborough, MA

Tel: 800.832.6200

Fax: 508.485.9113

Freeport, NY

Tel: 800.645.2996

Fax: 516.868.8074

JAPAN

Tokyo

Tel: +81.3.5213.2910

Fax: +81.3.5213.2911

ASIA

Hong Kong

Tel: +852.2680.6888

Fax: +852.2680.6333

EUROPE

Paris, France

Tel: +33.1.40.02.54.00

Fax: +33.1.40.02.54.07

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