

# JC 500

## ACID CLEANER

### Industrial Cleaning



- Acid cleaner for use in ultrasonic and immersion applications
- Formulated for removal of metal oxides, light rust, and industrial soils all in one product
- Free rinsing and can be filtered to extend bath life
- Can be used to passivate 300 series, 17-4, and 400 series stainless steel alloys (ASTM 967)

#### NORMAL PROCESS

<b>Process:</b>	Ultrasonic and Immersion Systems
<b>Concentration:</b>	3-20% (normal range 5-10%)
<b>Temperature:</b>	120°F-160°F/50°C-70°C
<b>Rinse:</b>	Yes
<b>Dry:</b>	Air

#### PRODUCT PROPERTIES

<b>Appearance:</b>	Clear, straw colored liquid
<b>PH Range:</b>	2-3
<b>Specific Gravity:</b>	1.16-1.17 g/mL at 25°C (77°F)
<b>Water Soluble:</b>	Soluble

#### PRODUCT APPLICATION

ultrasonic and immersion

#### REMOVES THESE CONTAMINANTS

metal oxides, rust, coolants, machining oils

#### SURFACE COMPATIBILITY

brass, copper, aluminum, and stainless steel

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#### NORMAL CONTROL

**Dropping Bottle Method** (Jayco Chemical Solutions part number: Acidity Test Kit JYT002)

1. Take a sample of the JC 500 solution from the Bath with a beaker and allow to cool to room temperature.
2. Measure out 10 ml, using the graduated sample bottle provided in the titration kit.
3. Add 1-2 drops phenolphthalein indicator
4. Add dropwise 5.0N N sodium hydroxide (NaOH) while counting the drops and swirling the solution.
5. Stop adding the drops when color changes from colorless to pink.
6. Calculation :

$$\text{Concentration of JC 500 (\%)} = \text{Drops of 5.0N NaOH} \times 0.313$$

#### Conductivity

Below are readings taken with DI water. Jayco Chemical Solutions suggests making up known concentrations in customer's operating range and water for more accurate readings

%	conductivity (mS/cm)
5	3.014 mS/cm
10	4.187 mS/cm
15	4.987 mS/cm

#### HANDLING AND SAFETY CONSIDERATIONS

Consult product safety data sheet for handling considerations, hazard information, and first aid procedures.

#### OTHER INFORMATION

*No warranty, expressed or implied of merchantability fitness for a particular purpose or otherwise, is made. Buyer assumes all risk of use, storage and handling. JAYCO Chemical Solutions shall not be made liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, storage, handling or disposal of this product.*