

# JC 400C

## ALKALINE DETERGENT

### Industrial Cleaning



- Heavy duty alkaline detergent
- Excellent rinsability
- Readily biodegradable
- Silicate Free
- Can be used on carbide cutting tools for in-process cleaning and prior to PVD and CVD coating
- Excellent removal of lapping, grinding, and polishing compounds

#### NORMAL PROCESS

<b>Process:</b>	Ultrasonic and Immersion Systems
<b>Concentration:</b>	3-20% (normal range 5-10%)
<b>Temperature:</b>	120°F-170°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>	12.5-12.8
<b>Specific Gravity:</b>	1.08-1.09 g/mL at 25°C (77°F)
<b>Water Soluble:</b>	Soluble

#### PRODUCT APPLICATION

Ultrasonics and Immersion

#### REMOVES THESE CONTAMINANTS

Metalworking fluids, stamping oils, grinding and polishing compounds

#### SURFACE COMPATIBILITY

steel, stainless steel, nickel alloys, carbide, and titanium

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#### NORMAL CONTROL

**Dropping Bottle Method** (Jayco Chemical Solutions part number: Alkalinity P/T Test Kit JYT001)

1. Take a sample of the JC 400C solution from the Bath with a beaker and allow to cool to room temperature.
2. Measure out 10 mls, using the graduated sample bottle provided in the titration kit.
3. Add 1-2 drops of total phenolphthalein indicator
4. Add dropwise 0.25N sulfuric acid while counting the drops and swirling the solution.
5. Stop adding the drops when color changes from pink to colorless
6. Calculation :

$$\text{Concentration of JC 400C (\%)} = \text{Drops of 0.25 N H}_2\text{SO}_4 \times 0.330$$

#### 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)
3	4.5 mS/cm
5	6.0 mS/cm
7	7.3 mS/cm

#### HANDLING AND SAFETY CONSIDERATIONS

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

#### OTHER INFORMATION

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