

## Cee-Bee<sup>®</sup> A-7X7S

Cee-Bee<sup>®</sup> A-7X7S is an aqueous alkaline cleaner used for immersion, ultrasonic, spray/rinse, steam injection and pre/post NDT cleaning applications. Cee-Bee<sup>®</sup> A-7X7S is also approved for turbine engine degreasing prior to teardown.

### Conforms To

- Airbus
  - CML 11-033
  - Application Code: 08CJA1
- AMS
  - AMS 1537B
- ARP
  - ARP 1755B
- Boeing
  - D6-17487, Rev. P

### Benefits

- Excellent for removing grease and oil.
- Free rinsing.
- Safe on steel, aluminum, titanium, magnesium and copper alloys.
- Safe on most paints and plastics.
- Contains no phenolics, cyanides or other heavy metal salts.
- Surfactants biodegradable.

### Properties

- A clear to slightly hazy liquid
- Mild solvent odor

### Notes Prior to Handling

Before using your Cee-Bee<sup>®</sup> products, all safety and operating instructions should be read and understood. If you have any questions, please contact your Cee-Bee<sup>®</sup> representative before proceeding.

## Use Procedure

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### Hot Tank Cleaning

1. Fill the operating tank to approx. one-half capacity with water. Add the desired amount of Cee-Bee® A-7X7S and bring to full tank volume with water. Stainless steel (300 series) is recommended for containing Cee-Bee® A-7X7S. Best results are obtained if some agitation is used. Mechanical agitation is recommended. Air agitation may develop too much foam.
2. Operating concentration and temperature may vary with soil difficulty and range between a 10% to 50% (by volume) solution at 120°F to 160°F (49-71°C). For most applications a 20% to 25% (by volume) solution at 140°F (60°C) for 10 to 30 minutes provides satisfactory results. Please see OEM's recommendations for specific concentration and temperature ranges.
  - a. For heavy duty cleaning, use Cee Bee® A-7X7S Additive. Add 2.5-10 liters of the additive for each 100 liters of tank solution. For most applications, 6 liters per 100 liters is usually satisfactory.
3. After the cleaning operation is complete, raise parts out of the bath and rinse lightly over the process tank with a fine spray of water. This will help control product drag-out and dry down.
4. Remove parts away from the tank area and rinse thoroughly with a water spray dip or in an air agitated, overflowing clear water rinse tank.

### Spray-On Cleaning and Degreasing Engine Exteriors

1. Mask all openings to the engine interior (the inlet, exhaust, fuel and oil lines left open, bleeders, breather tubes and open electrical connectors).
2. Spray, steam or foam on Cee-Bee® A-7X7S. Allow to dwell 10 to 20 minutes.
3. Flush with warm or hot water.

### Ultrasonic Cleaning

1. Immersing parts in a 20 – 25% solution of Cee-Bee® A-7X7S solution at ambient temperature for 15 to 30 minutes should provide satisfactory results. For this application, ventilation is not required.

### Operating Temperatures

- Operating the solution below the recommended temperature will reduce cleaning performance.

## Solution Control

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### Cee-Bee<sup>®</sup> A-7X7S pH

- If pH falls below 10.5, add with agitation 7.5 grams of Cee-Bee<sup>®</sup> A-7X7S pH Adjuster for each 100 liters of tank solution to increase pH by 0.1 unit. A pH meter is preferred, but a reliable pH paper can also be used.

### Concentration

- Cee-Bee<sup>®</sup> A-7X7S solution concentrations can be determined by:
  - Hand Refractometer (0-30 Scale)
- **NOTE:**
  - The refractometer method to determine concentration becomes increasingly more inaccurate as the bath becomes contaminated with soil.

### Reagents & Equipment

- Hand Refractometer (0-30 scale)

### Analysis Procedure

1. Allow a sample of the Cee-Bee<sup>®</sup> A-7X7S bath to cool to room temperature (25±2°C).
2. Thoroughly mix the sample and immediately apply a few drops to the inclined rectangular window of the refractometer using the plastic rod provided to make the transfer.
3. Immediately close the plastic cover over the window.
4. Hold the instrument up to a strong light and read the refraction value on the scale of 0 to 30 units (water will read -0-).
5. Calculation:

$$\text{Refractometer Reading} \times 4.45 = \% \text{ by volume of Cee-Bee}^{\text{®}} \text{ A-7X7S}$$

### Note

- Add Cee-Bee<sup>®</sup> Anti Foam Additive if foam formation is excessive. Do not add more than 3.74 grams per 100 litres of solution.
- When performance appears to be unsatisfactory, either add Cee-Bee<sup>®</sup> A-7X7S in 10% (by volume) increments, or Cee-Bee<sup>®</sup> A-7X7S Additive in 3% (by volume) increments. If performance fails to show improvement, dump and recharge the tank with fresh Cee-Bee<sup>®</sup> A-7X7S.

## Safety, Handling, and Precautions

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- Can cause irritation. Avoid eye contact and prolonged skin contact. Wear face shield or goggles and rubber gloves.
- In case of accidental contact, flood with water. If eye irritation persists, seek medical attention. Do not take internally.

## Contact Us

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