

Cee-Bee A-491S

Cee-Bee[®] A-491S is a non-phenolic, alkaline, diphase, hot tank paint and carbon remover.

Conforms To

- AMS
 - AMS 1385
- Boeing
 - D6-17487 Rev. T (Partial Testing)
- Messier-Bugatti-Dowty
 - SPM 32-09-01
- Military
 - MIL-PRF-83936C

Benefits

- Effectively removes enamels, varnish, lacquer, carbon and rubber deposits.
- Excellent for removal of zinc chromate primers.
- Provided with an oil seal to minimize evaporation.
- Safe on most aircraft structural metals, including high strength steel, stainless steel, mild steel, aluminum, magnesium and copper.
- Contains non-photochemically reactive solvents, which will not contribute to air pollution.
- Contains no phenol, cyanides or heavy metal salts.
- Surfactants biodegradable.

Properties

- Clear to slightly amber in color
- Two-phase liquid
- Mild odor

Notes Prior to Handling

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

Use Procedure

Paint and Carbon Removal

Use full strength in a mild steel tank at 158-220°F (70-104°C). Although 215°F (102°C) is adequate for most applications, a higher temperature is recommended for removing heavy carbon deposits.

1. Immerse parts completely into lower layer and soak until coating and/or soils have been penetrated and loosened. Immersion time will vary from a few minutes to several hours depending on the coating type and thickness. Parts can be lightly brushed to speed removal.
2. When cleaning is complete, remove the parts and allow excess remover to drain back into the tank.
3. Rinse with air boosted water spray away from the tank area.
4. Wipe the parts dry or allow air dry.

Notes

- Parts must be thoroughly dry before immersion into Cee-Bee[®] A-491S to minimize introduction of water into the bath.
- Spray rinsing must be conducted away from the tank area.

Solution Control

- Maintain at least a 6" to 8" oil seal. Adjust if necessary with Cee-Bee[®] A-491S Additive O.
- Periodic additions of 100% potassium hydroxide are required to replace drag out loss. To determine the required addition, use the following procedure.

Testing Procedure

1. Place a 50-gram sample of the lower layer into a 250 ml. Erlenmeyer flask.
2. Add approximately 50 ml. D.I. water and 2 to 3 drops Thymolphthalein Indicator solution.
3. Titrate with 1N acid until the blue color disappears.

Calculations

13 - (ml. 1N acid) = lbs. 100% potassium hydroxide flake required for each 100 gallons of Cee-Bee[®] A-491S
or

[13 - (ml. 1N acid)] X 1.2 = grams 100% potassium hydroxide flake required for each liter of Cee-Bee[®] A-491S

NOTES

- Use a wire basket for adding the required amount of potassium hydroxide. Lower the basket into the lower layer and agitate the bath until the potassium hydroxide is completely dissolved and dispersed uniformly throughout the bath. Do not use a galvanized wire basket.
- If the alkalinity determination is above 13, please add Cee-Bee[®] A-491S Additive M. Addition of 0.5% (by weight) of Additive M will bring down the alkalinity by 0.6 mL.
- If a Cee-Bee[®] A-491S bath becomes corrosive to aluminum due to water contamination, add Cee-Bee A-491S Inhibitor in increments of 1 quart/100 gallons (2.5ml/liter).
- The oil seal should be maintained between 11 – 13% of the bath volume by addition of Cee-Bee[®] A-491 Oil Seal, as this may be lost due to drag out.

Safety, Handling, and Precautions

- **WARNING!** Contains potassium hydroxide.
- May cause severe burns.
- Use face shield or goggles, rubber gloves and other protective clothing sufficient to avoid eye and skin contact.
- Use with adequate ventilation.
- Wash thoroughly after handling.
- Do not take internally.
- In case of accidental contact, immediately flush area with water for at least 15 minutes. If irritation persists, seek medical attention. Remove and wash contaminated clothing before reuse.
- For ingestion, do not induce vomiting. Administer large quantities of water. Seek medical attention.
- **Do not dissolve potassium hydroxide in water before adding to the bath.**
- **The lower layer of Cee-Bee[®] A-491S is not flammable at the suggested working temperatures of the bath. The oil seal on Cee-Bee[®] A-491S prevents the possibility of vapor buildup, and therefore care must be taken to ensure that the seal is always present at appropriate depths.**
- **Do not use galvanized wire baskets for adding potassium hydroxide to the bath.**
- **When contaminated with water, Cee-Bee[®] A-491S may become corrosive to aluminum.**
- Before removing the bung, loosen slowly to relieve internal pressure. Keep bung tight to prevent leakage. Keep away from sparks and open flame.

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