

Luster-On Products

Technical Data Sheet

LUSTER-ON 485

ALUMINUM DEOXIDIZER AND DESMUTTER

I. GENERAL DESCRIPTION

Luster-On 485 is a blended powder that forms an acidic solution when dissolved in water. This solution will remove smut and oxides from the surfaces of aluminum alloys including those with high zinc and iron contents. Use of Luster-On 485 eliminates the need for waste treatment of hexavalent chrome since it does not contain any chromic acid or chromium compounds.

READ MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT

II. BATH MAKE-UP

The bath should be made up by adding equal amounts of Luster-On 485A and Luster-On 485B to the tank, filling to operating level with water and then stirring until most of the material is dissolved. Complete dissolution of Luster-On 485 does not occur.

III. OPERATING CONDITIONS

Concentration: 2-6 oz/gal Luster-On 485A.
 2-6 oz/gal Luster-On 485B

Temperature: Room – 120° F.

Immersion Time: 3 minutes – 10 minutes.

To remove heavy smut from an alloy with a high content of silicon and / or copper, the bath needs to be made up with increased concentrations of Luster-On 485. Using the higher temperatures and concentrations will also decrease the amount of time necessary to de-smut the parts. For the best de-oxidation of a high copper alloy (2000 series), use Luster-On 480, and for de-oxidation of high silicon alloys or aluminum castings use a combination of nitric acid and Luster-On Kemflur.

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IV. HELPFUL COMMENTS

- Luster-On 485 should be used after cleaning and prior to chromating.
- Non-fuming bath, requiring no ventilation.
- Will remove improperly formed conversion coatings.
- Eliminates handling of nitric acid.
- Removes smut from aluminum alloys with high copper and / or silicon content.

V. EQUIPMENT

P.V.C., polyethylene or Koroseal lined steel tanks can be used for containing this solution
Ventilation is not necessary.

VI. CONTROL

1. Pipette a 10 ml sample into 250 ml Erlenmeyer flask, and add 50 ml of water.
2. Add 5 ml 1-1 Sulfuric Acid and 15 ml of 10% Potassium Iodide Solution.
3. Titrate with 0.1 Normal Sodium Thiosulfate until the color lightens to yellow.
Add 2-3 ml of a 1% Starch Indicator Solution, then continue the titration until
the blue color disappears.

Calculation:

ml of sodium thiosulfate X 0.36 = oz/gal. of Luster-On 485A and 485B.

VII. PACKAGE

400 pound polyethylene lined fiber drums.

VIII. DISPOSAL

Dilute, then neutralize with a basic material and discharge in accordance with Federal, State and Local Regulations.

IX. SAFETY AND HANDLING PRECAUTIONS

Luster-On 485 is a Moderately Acidic Industrial Product. Contains Fluoride.

DANGER! Causes severe burns that may or may not be immediately painful or visible!

Harmful if swallowed or inhaled.

Avoid contact with eyes, skin, and clothing.

Wear safety goggles, rubber gloves, and other suitable protective clothing when handling.

Wash thoroughly after handling. Avoid inhalation of mist or vapor.

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IX. SAFETY AND HANDLING PRECAUTIONS (Continued)

Use with adequate ventilation.

Do not take internally.

Avoid contact or mixing with glass, ceramic or concrete. In case contact is made, rinse surface promptly and thoroughly with water.

Avoid contact or mixing with materials containing chlorine.

Keep container closed when not in use.

Store in a cool place out of direct sunlight at temperatures below 120°F.

FIRST AID IN CASE OF CONTACT

In case of contact or suspicion of contact, immediate medical attention is absolutely necessary.

FOR EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to insure contact of water with all surfaces of eyes and lids.

Get immediate medical attention!

FOR SKIN: Immediately flush with large quantities of cool water until all acid is removed, paying particular attention to skin under the nails. Immediately remove contaminated clothing and shoes. Wash clothing and shoes before re-use. **Get immediate medical attention!**

IF SWALLOWED: Wash out mouth thoroughly with water. Give water to drink without delay. Follow with milk or 2 ounces of milk of magnesia. **Get immediate medical attention!**

IF INHALED: Remove from exposure. **Get immediate medical attention!**

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

This product is sold for industrial use only. Our suggestions for its use are based upon tests and procedures which from experience we believe to be reliable. Since the use is beyond our control, neither we nor our distributors can assume responsibility, either expressed or implied for the results and/or for violation of any patents or claims resulting from such use.

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