

Luster-On Products

Technical Data Sheet

LUSTER-ON 416 **Aluminum Etching Material**

I. GENERAL DESCRIPTION

Luster-On 416 is a caustic based material which provides a uniform etch on aluminum and its alloys.

READ MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT

II. BATH MAKE-UP

Fill the tank half full with cold water. The calculated amount of Luster-On 416 is added slowly and carefully with stirring. When it is all dissolved, bring the solution up to working level and heat to operating temperature.

III. OPERATING CONDITIONS

Concentration: 2 - 8 oz./gal.
Temperature: 140 - 170° F.
Time: 3 - 15 minutes.

NOTE: Immersion time will depend upon the temperature, concentration, alloy and degree of etch desired. Concentrations up to 16 oz./gal. may be used when heavy etching is desired.

**Luster-on Products Inc., Springfield, MA - 800-888-2541, Fax 413-731-5549,
www.luster-on.com, e-mail: sales@luster-on.com**

LUSTER-ON 416

IV. HELPFUL COMMENTS

Specially formulated to eliminate scaling and sludging. Luster-On 416 removes no soils, work must be precleaned in Luster-On 401 or 400 soak cleaner. Resultant smut can be easily removed in Luster-On 480, 485 or in a nitric Acid and Luster-On Kemflur mixture. Luster-On 416 contains strong alkali and should be handled with care.

V. EQUIPMENT

Steel tank with steam, gas or electric heating. Stainless steel, Type 304, is suggested for wetted materials.

VI. PACKAGE

400-lb. poly lined fiber drums.

VII. DISPOSAL

Dilute, then neutralize with an acidic material and discharge in accordance with Federal, State and Local Regulations. Water solids in the form of paint skin should be screened or allowed to settle out, and then hauled away.

VIII. SAFETY AND HANDLING PRECAUTIONS

CAUTION! HIGHLY ALKALINE INDUSTRIAL PRODUCT!

**DANGER! CAUSES BURNS OF EYES AND SKIN.
HARMFUL IF SWALLOWED OR INHALED.**

Avoid contact with eyes, skin and clothing.

Wear rubber gloves, safety goggles or face shield, and suitable Protective clothing when handling.

Avoid breathing mist.

Use with adequate ventilation.

Do not take internally.

Keep container closed when not in use.

When preparing new solutions or adding to existing solutions, slowly add to surface of solution while stirring to avoid spattering. Do not add large amounts of product to solution at any one time. Do not add to hot water or hot solution warmer than 110-120°F.

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VIII. SAFETY AND HANDLING PRECAUTIONS (Continued)

FIRST AID IN CASE OF CONTACT

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 area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. **Get immediate medical attention!**

IF SWALLOWED: Wash out mouth thoroughly with water. Give several glasses of water to drink followed by diluted vinegar, lemon juice or other citrus fruit juice. **Get immediate medical attention!**

IF INHALED: Remove from exposure. In case of severe overexposure, **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 any claims resulting from such use.

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CONTROL OF LUSTER-ON 416

1. Pipette a 10 ml sample into a 256 ml Erlenmeyer flask.
2. Dilute with 50 ml of water.
3. Add 5 drops of phenolphthalein indicator and swirl to mix.
4. Titrate with 1.0 N Hydrochloric Acid to a colorless endpoint.
5. Calculation:

Mls of 1.0 N Hydrochloric acid X 0.51 = oz/gal Luster-On 416

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