

Aqua Lube MD-333

Metal Stamping Drawing Lube, Synthetic

Aqua-lube MD-333 (code SML-200), (Ford Approval Tox #038139) is a 100% water based metal stamping and deep drawing forming lubricant for steel, aluminum and other metals. Also used as a fine blanking lube, providing excellent shear lubrication. Superior anti-rust, anti-stain properties. 100% water washable.

Aqua-lube MD-333 (code SML-200) is a viscous liquid that adheres to metal providing superior tool life, providing higher quality metal parts. Easily washed and rinsed from parts. Free of chlorine, phosphates and sulfur. Advanced environmentally green biodegradable technology.

Aqua-lube MD-333 (code SML-200) is free of oils and hydrocarbons eliminating the concern of oil disposal and contamination 100% Synthetic (Non-Oil). MD-333 can also be used on some grades of Stainless Steel and other high alloys Galfan Safe. Brose Approved Lubricant 18-008843.

Features & Benefits

- No Oils: Provides cleaner work areas, and happier employees.
- Easy Cleaning: Parts rinse easily, and parts skids/totes rinse remain oil free.
- Preferred technology for e-coat, powder coat and other paint line processes.
- Superior Corrosion Protection. No rust or stains.
- Biodegradable. Water based systems are safer and easier to use.
- Advanced Lubrication Provides extended tool life.
- Cleaner Parts and Work areas
- Hard Water Stable

Physical Data

pH	9.9
Product Type	Liquid 931.212
Spec. Gravity	1.015
lbs./gal.	8.47
Foam, 0 = Low, 9 = High	2
Shelf-Life Years	10 years
Freeze Information	Not damaged by freezing.

Typical Processing

1. Prepare a 5-25% by volume solution of Aqua-lube MD-333 with water.
2. Concentration depends on the level of draw, form, or shear. Determine each level of dilution per application.
3. Roll-coat, flood, spray, or mist the lube solution on the metal and proceed.
4. Central automated lubricant feed systems can be used and provide superior quality of use and application.
5. Aqua-lube MD-333 can be filtered and recirculated for a ultra-low use cost. A central system is ideal.

Packaging

Container Type	Poly 55, Totes
Net Units	465
Tare Wt.	25 lb.
Gross Wt.	490
DOT_Name	Not regulated by D.O.T.
DOT Hazard	Not regulated.
Tarriff ID	

Use Parameters

Concentration Range	2 – 50% as needed.
Temperature Range	Room Temp.
Time Range	n/a
Agitation	n/a

Waste Disposal

Remove fats, oils, grease, metals, and suspended solids.

Holding Tank Materials of Construction

Steel, stainless, or poly.

Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

Testing, Operating & Troubleshooting Data

Refractometer: Md-333 (3-2014 Ros)

(Refractive Index, Each 1% By Volume = 0.4 Points

4.0 = 10% By Volume

6.0 = 15%

8.0 = 20%

Note:

It Is Important to Verify That the Test Unit Has Been Calibrated with Pure Water (Di, Distilled Etc)
Water = 0 Refractance.

Standard Oz/gallon (Water Based) Titration: (4-2015 Rws) (See Optional Test Using Alcohol Below)

1. Transfer A 10 MI Sample of Bath into a Clean Flask
2. Add 10-15 Mls of Clean Water. (D.i., R.o., Distilled)
3. Add 5-10 Drops of Bromphenol Blue Indicator (Color Will Be blue/purple)
4. Add Drop by Drop Of .1 Normal Sulfuric Acid Until Color Changes to Solid Yellow.
5. The Number of Mls of Acid Required to Change Color Times A Factor Of .505 = Oz/gallon.
- 6.

Standard Oz/gallon (Iso-propyl Alcohol Based) Titration: (4-2015 Rws)

1. Transfer A 10 MI Sample of Bath into A Clean Flask
2. Add 20-25 Mls of Iso-propyl Alcohol
3. Add 5-10 Drops of Bromphenol Blue Indicator (Color Will Be Blue)
4. Add Drop by Drop Of .1 Normal Sulfuric Acid Until Color Changes to Solid Yellow.
5. Note: Color Will Drift Back to Blue. Carry The Testing Until Absence of Blue/ Green Color)
The Number of Mls of Acid Required to Change Color Times A Factor Of .43 =
Oz/gallon.4

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**¹³⁶.