

Technical Data

Perma-Slik[®] 1460W

Water Based, Cetyl Alcohol,
Solid Film Lubricant

**CURTISS -
WRIGHT**

Everlube[®] Products

Surface Technologies Division

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Product Description	
Perma-Slik 1460W is a low VOC, water based cetyl alcohol wax emulsion. This coating offers good lubricity without containing any heavy metals and/or hazardous materials. Perma-Slik 1460W is qualified to MIL-L-87132, Rev. B, Grade C. Additional specifications for this product can be found at: http://www.everlubeproducts.com/products .	
Features / Benefits	
<ul style="list-style-type: none">Enhances torque/tension propertiesExtremely safe wax base	<ul style="list-style-type: none">Very low VOCVery clean
Markets	Typical Applications
<ul style="list-style-type: none">Mechanical componentsFabricated metal partsIndustrial machineryChemical processing	<ul style="list-style-type: none">Threaded connectors and fastenersInterference fit fastenersNon-interference fit fastenersElectronic connectors
Physical Properties	
Lubricating Solids:	Cetyl alcohol wax (hexadecanol)
Binder:	N/A
Color and Appearance:*	Translucent finish
Carrier:	Water borne
Solids (by weight):*	8% to 12%
Density:*	8.2 ± 0.5 lb/gal (983 ± 60 grams/liter)
Flash Point:	n/a
Volatile Organic Compound:	109 grams/liter (0.9 lb/gal)
Theoretical Coverage: ¹	272 ft ² /gal @ 0.5 mils (6.6 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings:	N/A
Operating Temperature Range:	0°F to 140°F (-18°C to 60°C)
Coefficient of Friction	0.04 to 0.08
Processing Information ²	
Dry Film Thickness	0.1 to 0.3 mils (2.5 to 7.6 microns)
Dilution/Cleanup Solvent:	May be thinned with deionized water as needed
Dilution Ratio:	See dilution solvent section
Cure Cycle:	24 hr. @ 77°F ± 10°F
Suggested Pretreatment:	Clean, dry surface
Suggested Application Methods:	Dip spin, spray
Application Procedure:	
<ol style="list-style-type: none">SURFACE PREPARATION. Parts must be clean, dry and free of foreign matter. Steel and light alloy parts must be degreased, and titanium parts should be alkaline cleaned. (Do not use any form of chlorinated solvents on titanium.)MIX the lubricant thoroughly by stirring. Do not shake; this will cause unwanted bubble formation.POUR the lubricant into a plastic or stainless steel container large enough to adequately immerse the parts.DIP your product parts into the lubricant, covering them completely.REMOVE the parts, allowing any excess lubricant to drip back into the container. Handle carefully to minimize bubble formation on the part surfaces.	

6. *DRY* at room temperature, or in slow moving heated air, not to exceed 200°F (93°C). CHECK to make sure all part surfaces are completely coated. Do not handle parts until dry, or you will remove the lubricant. (A few small bubbles in the lubricant surface is not uncommon.)
7. Perma-Slik 1460W is formulated to give maximum build-up by using it in concentrated form. If you wish to achieve a thinner coating, such as for small, fine parts, dilute to the desired consistency with water. (We recommend deionized water.) A thicker coating can be achieved with one of three methods: (a) Preheat the parts before coating, (b) Dip as usual the first time, allow to dry to the touch, then dip a second time or (c) Dry in air heated to maximum 200°F (93°C).
8. This lubricant can also be applied by brush or spray. Follow all other procedures as described in steps 1 through 7.

Additional Information

Shelf Life and Storage:

One year from date of shipment, stored in a factory sealed container between the temperatures, 40°F to 100°F. Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above

Packaging: Perma-Slik 1460W is available in 55-gallon drums, 5-gallon pails, and gallons

Warranty:

No representation or warranty is expressed or implied and all warranties including warranties of marketability and fitness for use are expressly disclaimed. Nothing herein shall be construed as permission or recommendation to practice a patented invention without a license.

* These tests are performed on each production lot

¹ Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.7 microns).

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