

MicroCure OilSlip 6ET TECHNICAL DATA SHEET

OVERVIEW

OilSlip is a hydrophobic and oleophobic nano-coating that reduces the surface energy of metals. OilSlip is applied in a simple process by dipping, wiping, or using a squeegee. The omniphobic nanolayer of OilSlip is chemicals and abrasion resistant. On metal devices such as stencils and molds, this coating provides excellent release and anti-fouling properties. OilSlip is recommended for applications where anti-smudge properties are needed.

FEATURES

- Water, oil, protein, DNA, and other organics repellency
- Reduced coefficient of friction of surfaces
- Does not change the appearance of metal surfaces
- Covalent bonding to surface prevents leaching

TECHNICAL DATA

Solids concentration	6%
Appearance	Clear liquid
Chemistry	Siloxane
Density	0.8 g/ml
Flammable	Yes
Viscosity (25°C)	0.55 cP
Solvent	Ethyl Acetate
Shelf life	1 year
Odor	Organic odor when wet. Odorless when dry
Storage	Room temperature in lightly closed container
Package options	100 grams in 4 oz. can; 8 pounds in 1-gallon can

COATING PROPERTIES

Color	Colorless
Toxicity	Non-Toxic
Cure temperature	75 °F (12 hours)
Pencil Hardness	>4H
Hydrophobicity (Static Water Contact Angle 2 µl)	>100°
Water roll-off angle (100 µl)	<20°
Oleophobicity (Static Mineral Oil Contact Angle 25 µl)	>65°
Water Resistance	Excellent
Application methods	Wipe, brush, dip

All statements, technical information and recommendations contained in this document are based upon tests or experience that Cytonix believes are reliable. However, many factors beyond Cytonix's control can affect the use and performance of a product in a particular application, including the conditions under which the product is stored or used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of application. No warranty or condition, expressed or implied, is given regarding the accuracy of the statements, technical information or recommendations contained in this document. Except to the extent prohibited by law, Cytonix will not be liable for any losses or damages arising in any way from the Cytonix product including, without limitation, any direct, indirect, special, incidental, or consequential damages, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability. VS230131