

OilSlip 110 TDS

OilSlip 110 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 monolayer of OilSlip is chemical and abrasion resistant. On metal devices such as stencils and molds, this coating provides excellent anti-fouling properties. OilSlip is recommended for applications where anti-smudge properties are needed. The main features of OilSlip include:

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

Physical properties of OilSlip:

Physical Property	
Consistency	Liquid
Color	Clear - lightly turbid
Odor	Alcohol like odor
Flammable	Yes
Boiling point of solvent	80°C
Density	0.8 g/ml
Refractive index	<1.36
Soluble in water	No
Hazardous decomposition	> 250°C
Toxicity	Non-toxic
Viscosity	3 cP
Shelf Life	1 Year (in unopened container)

Properties of coated surface:

Property	
Coating Thickness	~5 nm
Hydrophobicity (Static Water Contact Angle 2 μ l)	>110°
Water roll-off angle (200 μ l)	<20°
Oleophobicity (Static Mineral Oil Contact Angle 25 μ l)	>75°

Application notes

Substrate Preparation:

1. Before applying OilSlip 110, clean the substrate with isopropyl alcohol or other suitable solvent.
2. After cleaning, dry the substrate with a lint-free cloth. Please check surface to assure that it is free of oils, lint, and other contaminants.

Coating Application:

1. Apply OilSlip by dipping, wiping or using spritz and squeegee methods. When wiping on, apply 4 drops of OilSlip onto a microfiber cloth and apply using a crosshatch pattern for good even coverage.
2. Let the coating air-dry for 20 minutes at room temperature and buff clean with a new microfiber cloth. Then bake the substrate at 50-100°C for 10 minutes. If baking is not possible, air-dry the substrate for 24 hrs.

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