

Optool DSX-E

Optool DSX-E is an innovative antifouling agent, which DAIKIN has developed based on our long experience in original fluorine chemical technology.

Product Features

OPTOOL DSX-E is especially effective on glass and surfaces coated with SiO₂. It adds the following characteristics to the surfaces:

- Water and oil resistant
- Anti adhesion of oils like fingerprints and its easy removability
- Low friction surfaces
- Durability
- Sliding angle reduction, especially effective for oils
- Non cohesiveness
- Ice suppression and easy removability
- It is simply used and contributes to rapid processing

Packing specification

- 0.1 kg

Safety

Before using this product, please read the current Material Safety Data Sheet and the precautionary statement on the product package.

This product is intended for general industry, and therefore its adequacy and safety as a raw material for medical purposes cannot be guaranteed.

Follow all applicable directions.

Physical Properties*

The following data was measured on DSX-E coated Gorilla Glass surface.

Item	Optool DSX-E
Water contact angle	115 °
Critical surface tension	13 mN / m
Sliding angle of water	8 °
Sliding angle of n-hexadecane	6 °
Tendency for fingerprint transfer	Better
Cleanability	Excellent
QUV durability ²	72 h
Xenon arc lamp durability ³	200 h
Steel wool abrasion durability ⁴	6,000 cycles
COF ⁵	0.07
Haze	0.25
High temperature test ⁶	114 °
High temperature and high humidity test ⁷	115 °
Acid resistant ⁸	107 °
Base resistant ⁹	59 °

*The above physical properties are representative and not guaranteed.

²: Irradiation time to keep water contact angle above 100 °.
UV source: UV-B313, Irradiance (@313 nm): 0.63 W/m²

³: Irradiation time to keep water contact angle above 100 ° (SAE J2527)

⁴: Maximum rubbing cycles to keep water contact angle above 100 °
Conditions: Steel wool #0000, Load: 1 kgf/cm², Stroke: 6 cm, Speed: 60 rpm

⁵: Equipment: LabthinkFPT-1, Load: 200 g, Speed: 200 mm/min, friction material: paper

⁶: Water contact angle in Air 130 after 6 days passage

⁷: Water contact angle in Air 85 °C / 85 % RH after 6 days passage

⁸: Water contact angle in 1.0 mass% HCl aq. 25 after 4 days passage

⁹: Water contact angle in 4.0 mass% NaOH aq. 25 after 4 hours passage

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