

Anti-smudge coating OPTOOL DSX-F

TECHNICAL DATASHEET

OPTOOL DSX-F is a fluorine-based anti-smudge coating with excellent antifouling properties and water-and-oil repellency.

Overview

- Water-and-oil repellency.
- Excellent protection against oils, especially fingerprints, and easy removal.
- Low sliding angle, especially for oils.
- Excellent non-stick properties.
- Low-friction surface.
- Effective for glass and metal surfaces.
- It does not affect optical properties due to forming a nanometer-scale thin film.

Appearance and composition/ingredient information

Item	DSX-F
Appearance	Colorless transparent to pale yellow
Concentration of active ingredient	19.0~21.0 mass%
Solvent	Hydrofluoroether

General physical properties ^{*1}

Examples of surface properties of PVD deposited on glass substrates are shown below.

Measurement items	Unit	DSX-F	DSX-E
Water contact angle	°	115	114
Water sliding angle	°	16	17
n-hexadecane contact angle	°	66	67
n-hexadecane sliding angle	°	4	3
Abrasion resistance ^{*2}	°	109	108
Coefficient of friction ^{*3}	-	0.07	0.07
Haze	-	<0.20	<0.20

^{*1} The above values are representative values and not guaranteed.

^{*2} Water contact angle after 2000 SW abrasions (measured at contact area: 1cm², load: 1kgf)

^{*3} Measured at friction element: OA paper, speed: 200 mm/min, load: 200gf

Handling instructions/Safety information

- Please read the precautions on the SDS and label before use.
- Since this product is for general industrial use, its suitability and safety as a raw material for medical use cannot be guaranteed.

Packing specification

- 100g

For more information, visit our website.

DAIKIN INDUSTRIES, LTD.

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tds-dsx-f-E_ver01_Aug_2026
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