

Water/oil-repellent fluororesin coating material CYTOP™



Transparency

Repellency

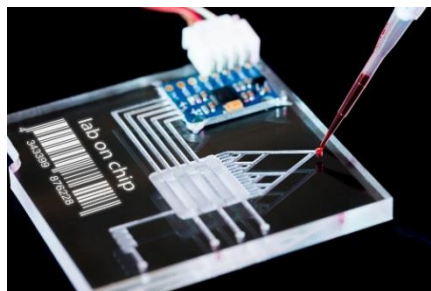
Water proof

Chemical resistance

Electric insulation

Low refractive index

Application examples



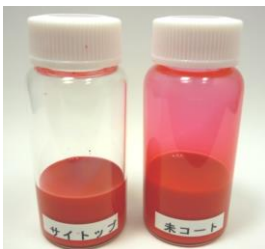
Ink jet nozzle

The liquid repellence of a nozzle tip has a significant impact on the liquid-cut property of nozzles. CYTOP™ can improve liquid repellence for various types of chemicals.

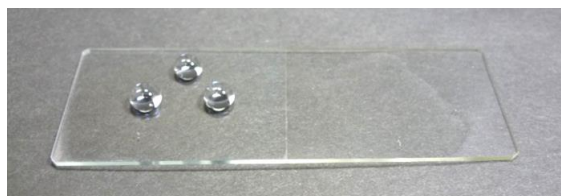
Bio-chip detection element

CYTOP™ absorbs less water than silicone and has a higher water/oil repellence. It is widely used in the bio-chip field because of it can prevent biological substances from adhering to it.

CYTOP coating Glass only



CYTOP coating Glass only



Container, substrate coating

With its high water/oil repellency, CYTOP™ can control the wetting of substrates and spread of fluid on substrates in various types of fluids.

Repellency of CYTOP™

Contact angle It has high water/oil repellency

	Water	<i>n</i> -hexadecane
Glass substrate	44°	21°
CYTOP coating glass	112°	53°

Critical surface tension It repels fluid because of low critical surface tension.

CYTOP	PTFE	PMMA
19 mN/m	18 mN/m	39 mN/m

Water absorptivity It has an extremely low absorption rate, and takes in almost no water.

CYTOP	High-density polyethylene	polyimide
<0.01%	<0.01%	0.5%

AGC Chemicals

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