

# Water/oil-repellent fluororesin coating material CYTOP™



Transparency

Repellency

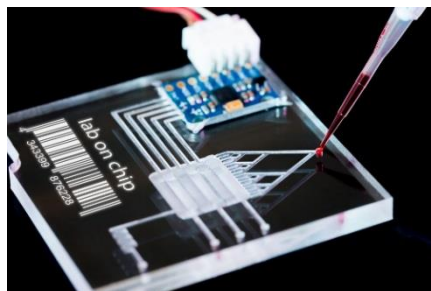
Water proof

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.

## 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°

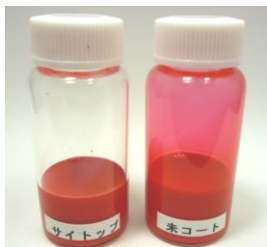
**Critical surface tension** It repels fluid because of low critical surface tension.

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

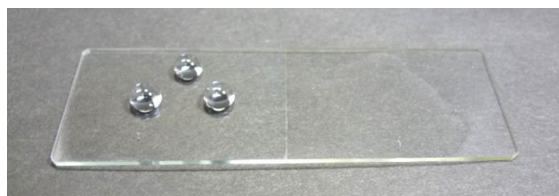
**Water absorptivity** It has an extremely low absorption rate, and takes in almost no water.

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

CYTOP coating Glass only



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### 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.

**AGC Inc.  
Chemicals Company**

Shin-Marunouchi Bldg., 1-5-1 Marunouchi  
URL : <http://www.agc-chemicals.com>

