

Fluorochemical surfactant

[Catalog/Physical properties table]



Company
Website



Product
Website



Uni-chem

Uni-Chem Co., Ltd.

〒547-0002

6-15-4 Kamihigashi, Hirano-ku, Osaka
City, Osaka Prefecture

Contact Us: info@uni-chem.co.jp



Uni-chem



Fluorochemical surfactant

Our products, fluoro-surfactants, provide lower surface tension with small addition amounts (0.01~0.1%) compared to other surfactants (hydrocarbon-based, silicone-based).

Low surface tension



Applications

- Floor wax
- Paints
- Prevents grease base oil from spreading
- Cleaning agents
- Inks
- Release film
- Release agents
- Coating agents
- Various internal additives for stain resistance
- Photo resist
- PTFE dispersions
- etc...

Conventional products

Product NO.	Ionic character	Category	Surface tension 0.1wt%		
			PGMEA	Toluene	Water
U-103	Non-ionic	Polymer system	20.9	20.0	26.9
U-104	Non-ionic	Contains hydrophilic group	27.8	27.0	19.4
U-107	Non-ionic	Contains hydrophilic group	23.7	-	25.7
U-116	Non-ionic	Contains hydrophilic group	27.6	26.6	20.4
U-117	Non-ionic	Contains hydrophilic group	27.0	26.8	21.3
U-168	Non-ionic	Contains hydrophilic group	27.7	27.6	17.1
U-204	Anion	—	27.6	-	22.5
U-207	Amphoteric	—	21.9	-	26.5
U-255	Non-ionic	Contains lipophilic group	27.7	28.3	25.2
U-259	Non-ionic	Contains hydrophilic & lipophilic groups	27.6	28.1	25.8
U-279	Non-ionic	Polymer system	23.1	22.3	-
U-280	Non-ionic	Polymer system	21.3	22.3	-
U-410	Cation	—	27.3	-	21.6
U-411	Cation	—	27.3	21.7	16.5
U-412	Cation	—	20.7	-	20.4
U-413	Cation	—	20.8	-	31.1

Non-PFHxA Type

As an alternative to conventional products, we offer non-PFHxA type fluoro-surfactants with low environmental regulation risk.

Our products can achieve the same performance as conventional products. While they solve the problem of persistence, their heat resistance may be inferior to conventional products, so use in applications requiring heat resistance is limited.

Product NO.	Ionic character	Category	Surface tension 0.1wt%		
			PGMEA	Toluene	Water
U-180	Non-ionic	Polymer system	26.1	25.6	35.6
U-186	Non-ionic	Polymer system	26.7	27.2	-
U-218	Non-ionic	Polymer system	25.6	26.7	42.8
U-219	Non-ionic	Polymer system	27.4	28.1	-
U-220	Non-ionic	Polymer system	27.6	27.9	-
U-409	Amphoteric	—	-	-	15.9

Non-PFAS Type

This is a fluorochemical surfactant that does not contain PFAS*.

Because it does not contain PFAS, its performance is significantly inferior to conventional products, but it can replace conventional products in some applications. It has been particularly successful in leveling applications.

*PFAS is defined by ECHA (European Chemicals Agency)

Product NO.	Ionic character	Category	Surface tension 0.1wt%		
			PGMEA	Toluene	Water
U-275	Anion	Polymer system	27.6	-	34.2
U-291	Anion	Polymer system	27.7	28.5	29.4
U-253	Non-ionic	Polymer system	27.4	28.4	-
U-405	Non-ionic	Polymer system	27.5	27.8	-

Customized Synthesis

We synthesize samples individually for each user. It is possible to provide materials that meet your needs.

Continuous supply

We promise continuous supply and will not withdraw from the market due to our own reasons. We will not discontinue products even if the quantity is small.

Substitute for existing products

If the product you are conventionally using has been discontinued, we can provide you with a product that is as like the existing product as possible.