

100% plant-derived water-soluble moisturizing oil

NATUWIL® TP-01

1 What is NATUWIL®

- 100% Natural Origin (ISO16128).
- Provides a rich, non-sticky texture.
- High affinity for skin and emollient feel.
- Reduce stickiness of sticky xanthan gum and polyglycerin-based activators.



INCI

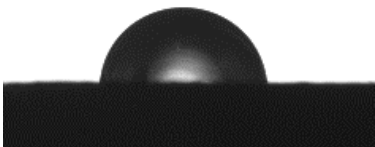
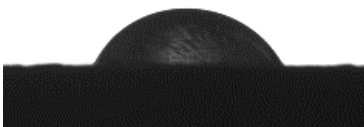
Propanediol/Triethylene Glycol Copolymer

2 Contact angle measurement

<Test method>

Method : Adaptive method

Device : Automatic Contact Angle Meter DM-501

Glycerin (5%aq)	NATUWIL® (5%aq)
82.6°	61.0°
	

**NATUWIL® has a high affinity for skin
due to its low surface tension.**

3 Cloud point

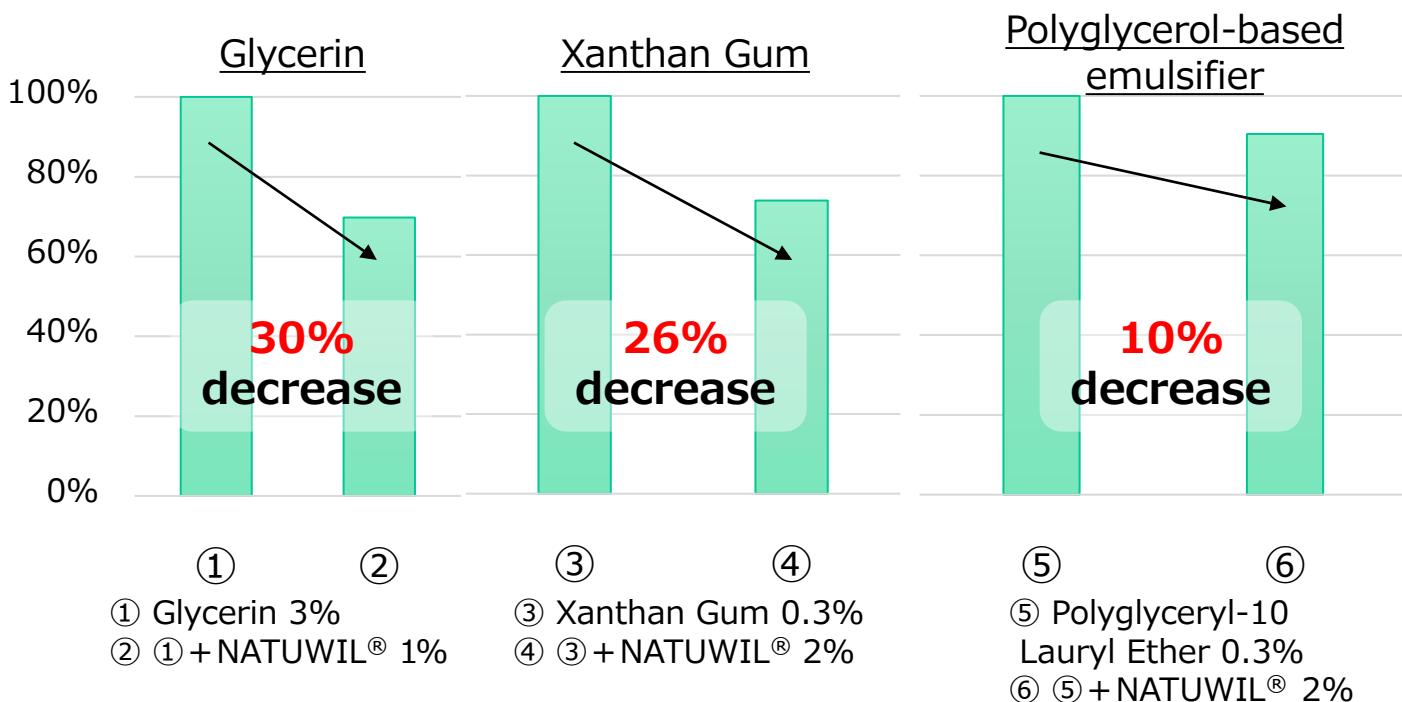
	1	2
NATUWIL®	5%	5%
Glycerin	-	5%
Water	95%	90%
Cloud point	65°C	64°C

**NATUWIL® not lower the
cloud point when
combined with glycerin.**

3 Reduced stickiness effect

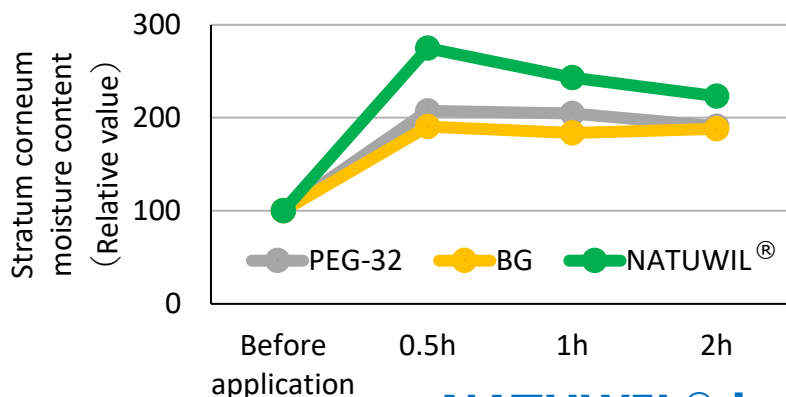
<Equipment> Tribomaster TL201Ts (Trinity-lab. INC.) dynamic and static friction measuring device.

<Method> The dynamic coefficient of friction was measured for the following aqueous solutions, and the reduction rate of stickiness due to NATUWIL® was calculated.



NATUWIL® provides a rich, non-sticky texture.

4 Moisturizing Effect



< Test Method >

After washing and acclimation of inner of the upper arm, stratum corneum moisture content was measured by SKICON-200EX.

NATUWIL® increases stratum corneum moisture content.

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