

# Toray TR-1

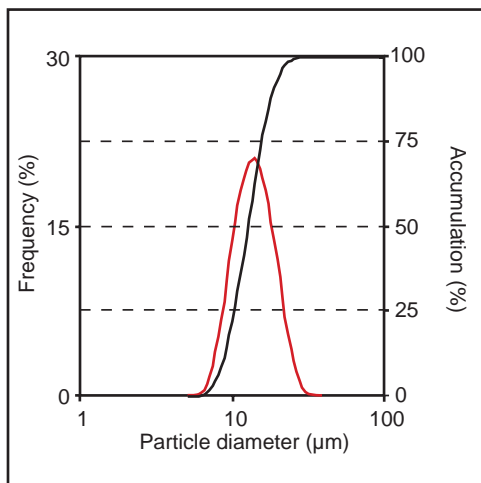
## Nylon-6 Powder

Kobo introduces a new Nylon-6 powder for use in cosmetic and personal care products. This material has nice skin feel, superior absorbency, and offers good optical benefits. The advantages of this powder include :

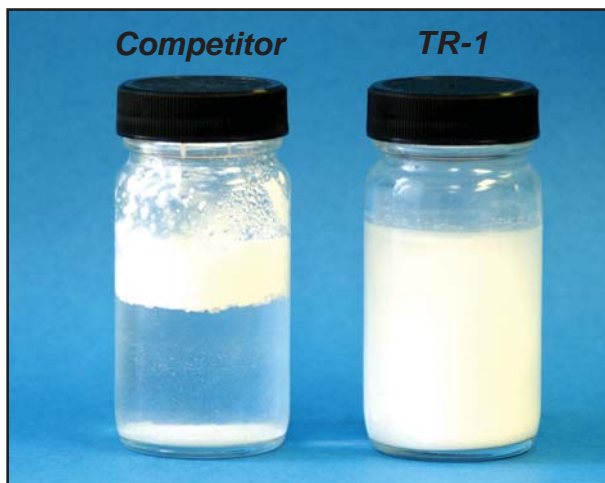
- ▶ Hydrophilic - disperses well in water
- ▶ Porous - high oil absorption (1.22 g / 1.00 g oil, linseed oil)
- ▶ Narrow particle size distribution - average particle size : 13  $\mu\text{m}$
- ▶ Large surface area
- ▶ Can absorb and/or deliver different materials, such as titanium dioxide, semi-precious gemstones, colorants, antimicrobials, actives, etc.



SEM picture of TR-1



TR-1 Particle size distribution



TR-1 water dispersibility (jar on the right) compared to competitive Nylon-6 (left)

## KOBO

Kobo Products, Inc.  
3474 So. Clinton Ave.  
So. Plainfield, NJ 07080  
USA  
tel +1 / (908) 757-0033  
fax +1 / (908) 757-0905

Kobo Products, SAS  
Rue Buissonniere, BP 67660  
31676 Labege Cedex  
France  
tel +33 / (0)5.62.88.77.40  
fax +33 / (0)5.62.88.77.49

## Applications

TR-1 can be used in many types of cosmetic formulations, especially for oil absorption and delivery. It is recommended for:

- ▶ Skin care products, crèmes, lotions, gels, hydro alcohol systems
- ▶ Makeup products including hot pours, cream-to-powder foundations, liquid foundations, pressed powders, lipsticks, eye shadows, etc.
- ▶ AP/Deo applications
- ▶ Hair care

## Oil Absorbing Liquid Foundation with TR-1

Formula KLF-035A

Part 1	
● <b>SF1528</b> - Momentive/ Kobo Products: <i>Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone</i>	10.00%
● <b>SILSOFT ETS</b> - Momentive/ Kobo Products: <i>Ethyl Trisiloxane</i>	23.26%
● <b>VELVESIL 125</b> - Momentive/ Kobo Products: <i>Cyclopentasiloxane (And) C30-45 Alkyl Cetearyl Dimethicone Crosspolymer</i>	0.75%
● <b>SF1555</b> - Momentive/ Kobo Products: <i>Bis-Phenylpropyl Dimethicone</i>	0.60%
● <b>SS4230</b> - Momentive/ Kobo Products: <i>Decamethyl Cyclopentasiloxane (And) Trimethylsiloxyisilicate</i>	1.50%
● <b>KF 6017</b> - Shinetsu Silicones of America: <i>PEG-10 Dimethicone</i>	3.00%
Part 2	
● <b>FAS70USI</b> - Kobo Products: <i>Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane</i>	10.50%
● <b>FAS50EYSI</b> - Kobo Products: <i>Iron Oxides (C.I. 77492) (and) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane</i>	1.40%
● <b>FAS55ERSI</b> - Kobo Products: <i>Iron Oxides (C.I. 77491) (And) Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane</i>	0.35%
● <b>FAS60EBSI</b> - Kobo Products: <i>Iron Oxides (C.I. 77499) (And) Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane</i>	0.20%
Part 3	
● <i>Deionized Water</i>	33.00%
● <i>Butylene Glycol</i>	3.00%
● <i>Sodium Chloride</i>	0.63%
● <i>Glycerin U.S.P.F.C. C 96%</i>	1.00%
● <i>Polysorbate 20 - Rita Corp.</i>	0.31%
● <i>Jeecide CAP-5 - Jeen International: Phenoxyethanol (And) Caprylyl Glycol (And) Potassium Sorbate (And) Water (And) Hexylene Glycol</i>	0.50%
● <i>Ethyl Alcohol 39C - Warner Graham:</i>	5.00%
● <b>TR-1</b> - Toray/Kobo Products: <i>Nylon-6</i>	5.00%

### Description

A W/Si foundation that has a great feel and oil absorbing properties due to TR-1. This formula also uses the new volatile Silsoft ETS from Momentive for feel and quick evaporation to obtain the liquid to powder feel.

## Pressed Powder with TR-1

Formula KPP-011

Part 1	
● <b>Talc N/MM3</b> - Kobo Products: <i>Talc (And) Magnesium Myristate</i>	71.50%
● <b>TR-1</b> - Toray/Kobo: <i>Nylon-6</i>	8.00%
● <b>BTD-11S2</b> - Kobo Products: <i>Titanium Dioxide (And) Triethoxycaprylylsilane</i>	7.00%
● <b>ZINC STEARATE</b> - Kobo Products	5.00%
● <b>BYO-11S2</b> - Kobo Products: <i>Iron Oxides (C.I. 77492) (And) Triethoxycaprylylsilane</i>	1.25%
● <b>BRO-11S2</b> - Kobo Products: <i>Iron Oxides (C.I. 77491) (And) Triethoxycaprylylsilane</i>	1.00%
● <b>BBO-11S2</b> - Kobo Products: <i>Iron Oxides (C.I. 77499) (And) Triethoxycaprylylsilane</i>	0.25%
Part 2	
● <b>SF96-20</b> - Momentive/ Kobo Products: <i>Dimethicone</i>	2.00%
● <b>LEXOL® PG-865</b> - Ashland Chemical Co.: <i>Propylene Glycol Dicaprylate/Dicaprate</i>	2.00%
● <b>ELEMENT14 PDMS 350</b> - Momentive/ Kobo Products: <i>Dimethicone</i>	1.40%
● <b>SS4267</b> - Momentive/ Kobo Products: <i>Dimethicone (And) Trimethylsiloxyisilicate</i>	0.60%

### Description

Pressed powder with great release and new TR-1 absorbent powder for all day oil control.

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[www.koboproducts.com](http://www.koboproducts.com)