

Product Name

Rheopearl TT2

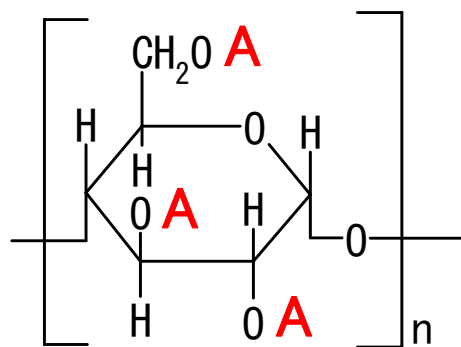
Chemical Name

Dextrin Palmitate/Ethylhexanoate

INCI Name

Dextrin Palmitate/Ethylhexanoate

Chemical Structure



A: Palmitoyl group or
2-Ethylhexanoyl group or
Hydrogen

n: Degree of polymerization

Patent information

Chiba Flour Milling Co., LTD. in Japan is the only manufacturer of Dextrin Palmitate / Ethylhexanoate in the world and own the patent.

Manufacturer

Chiba Flour Milling Co., Ltd.
17, Shinminato, Mihama-ku, Chiba-city, Chiba 261-0002 Japan
Phone: 81-43-241-0108 Fax : 81-43-245-1781

Cosmetic Raw Material

Rheopearl TT2



MAIN FUNCTION

Gelling of oils;

Transparent, Soft & Thixotropic gel

Increase in viscosity of oils

Stabilization of emulsion system

Rheopearl TT2



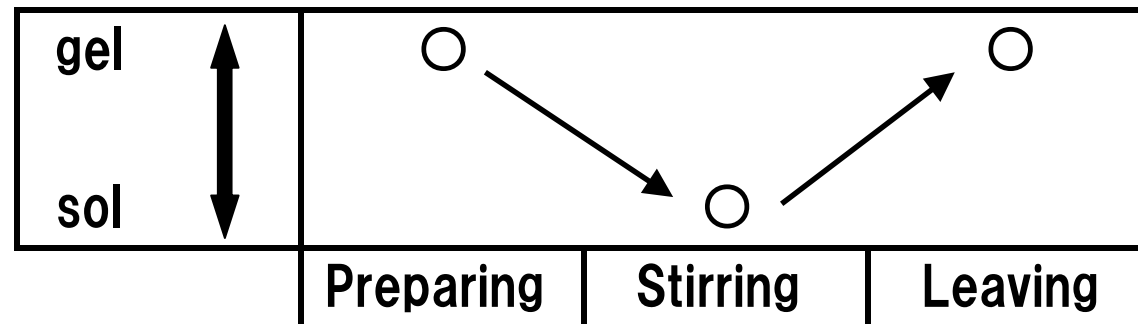
Chiba Flour Milling Co., Ltd.
17, SHINMINATO, MIHAMA-KU, CHIBA-CITY, 261-0002 JAPAN
URL <http://www.chiba-seifun.co.jp>

Characteristic of Rheopearl TT2

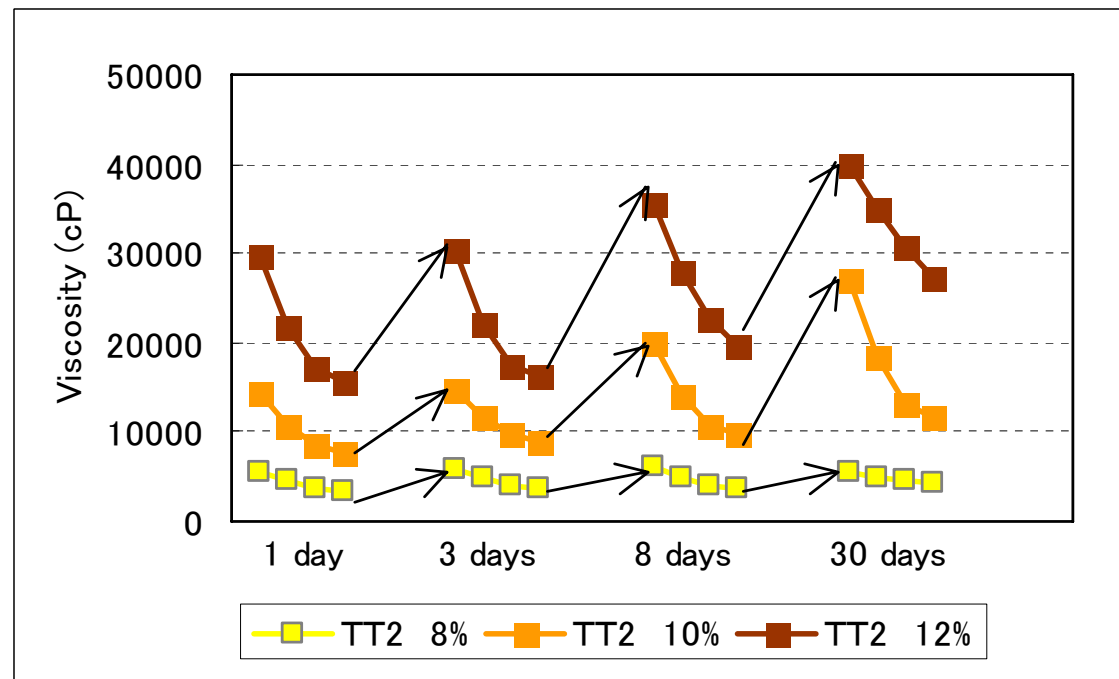
- 1.High restoration to gel state after collapse by stirring
- 2.Transparent, Soft & Thixotropic gel
- 3.Reduction of tackiness , greasy/oily feel
- 4.Stabilization of emulsion system

High restoration to gel state after collapse by stirring

“Restoration image” of Oil Gel by Rheopearl TT2



Soft and Thixotropic



Viscosity Measurement

Destroy oil gel of Rheopearl TT2 by stirring. Leave it for 1day-30 days, and it can return gel form and viscosity to first condition. (thixotropy).

Measurement condition

Oil: Liquid Paraffin 70 vis

Equipment: E-type rotating viscometer VISCONIC EMD (Tokyo-keiki Co., Ltd.)

Standard rotor (1'34') 30°C 0.5rpm 10 minutes

Melting point and Gel stability

	Rheopearl TT2		Rheopearl KL2	
	10% Gel		5% Gel	
	Melting point	Stability	Melting point	Stability
Paraffin				
Mineral Oil (70vis.)	70°C	○	80°C	○
Volatile Isoparaffin	60°C	10% not done	60°C	5% not done
Squalane	80°C	20% ◎	80°C	10% X
Octyldodecanol	70°C	◎	80°C	△
ester				
Glyceryl Trioctanoin	70°C	○	70°C	○
Caprylic/Capric Triglyceride	70°C	○	80°C	○
Polyglyceryl-2 Isostearate	90°C	2.3% ◎	110°C	1% ◎
		10% not done		5% not done
Isopropyl Myristate	50°C	○	60°C	○
Isopropyl Palmitate	65°C	○	65°C	○
Isotridecyl Myristate	60°C	○	75°C	○
Cetyl Octanoate	60°C	○	70°C	○
Isononyl Isononanoate	60°C	10% not done	65°C	5% not done
		20% ◎		10% ○
Isostearyl Myristate	70°C	◎	80°C	○
Octyldodecyl Myristate	70°C	○	85°C	○
2-Octyldodecyl Erucate	90°C	○	80°C	○
Jojoba Oil	80°C	○	100°C	○
Diisostearyl Malate (*)	100°C	4% ◎	-	2% ◎
		10% not done		5% not done
Dipentaerythryl Hexahydroxystearate /Stearate/Rosinate	100°C	2% ◎	-	1% ◎
		10% not done		5% not done
Neopentyl Glycol Dicaprate	70°C	○	70°C	○
Diisostearyl Adipate	90°C	◎	90°C	○
Sorbitan Sesuquioleate	90°C	2% ◎	100°C	1% ◎
		10% not done		5% not done
Octyldodecyl Lactate	60°C	○	90°C	○

Stability: ◎No separation ○Slightly separation △A little separation Xseparation

Application

Oil cleansing gel, Lip gloss, Mascara, Skin care products etc...