

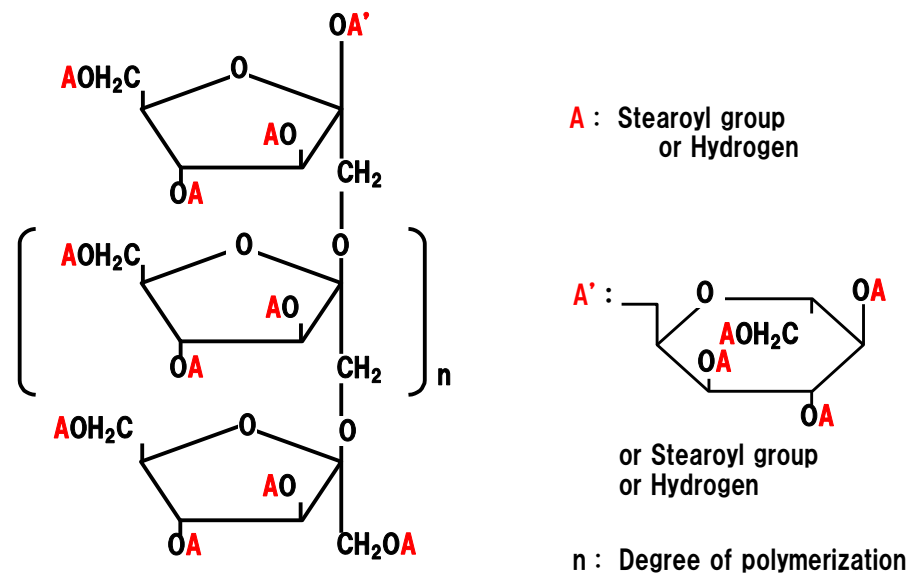
Cosmetic Raw Material

Product Name Rheopearl ISK2

Chemical Name Stearoyl Inulin

INCI Name Stearoyl Inulin

Chemical Structure



Safety data

We don't have any data about Rheopearl ISK2. But we have safety data about Stearoyl Inulin made with different catalyst (Trade Name:Rheopearl ISK).

Patent information

Original development of Stearoyl Inulin was done by Kose Corporation. Kose Corporation has several patent applications and granted patents concerning Stearoyl Inulin. Kose Corporation had granted the licensing and sub-licensing of above patents to Chiba Flour Milling and the customers of Rheopearl ISK2 under the agreement between Kose Corporation and Chiba Flour Milling Co., Ltd.

Manufacturer

Chiba Flour Milling Co., Ltd.
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Rheopearl ISK2



MAIN FUNCTION

Gelling of oils

Stabilization of emulsion system

Rheological modification of wax

Rheopearl ISK2



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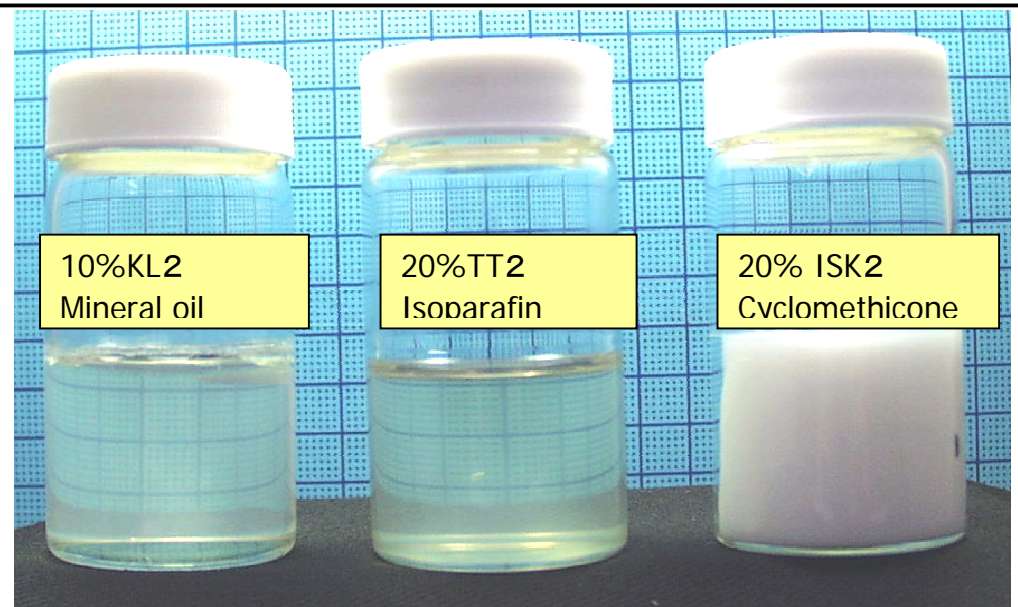
URL <http://www.chiba-seifun.co.jp>

MAIN FUNCTION

- Function 1 : Gelling of oils: hard white gel (*Cyclomethicone*)
- Function 2 : Stabilization of emulsion system
- Function 3 : Rheological modification of wax

Function 1: Gelling of oils

Our cosmetic raw material since 2002, *Rheoparl ISK2* is Stearoyl Inulin. It can make *cyclomethicone gel* in *Rheoparl series*.



Gel strength of 20% Rheoparl ISK2 /Oil

Oil	Gel strength (g)
CYCLOMETHICONE	2030
DIPHENYL DIMETHICONE	964
DIMETHICONE	separation
MINERAL OIL	30
HYDROGENATED POLYISOBUTENE	199
SQUALANE	83
OCTYLDODECANOL	soft gel
TRIOCTANOIN	363
CAPRYLIC/CAPRIC TRIGLYCERIDE	34
ISOPROPYL PALMITATE	separation
ISOTRIDECYL ISONONANOATE	462
CETYL OCTANOATE	liquid
ISOSTEARYL ISOSTEARATE	64
OCTYLDODECYL MYRISTATE	liquid
DIISOSTEARYL MALATE	1470
TRIMETHYLOLPROPANE TRIOCTANOATE	222
JOJOBA (BUXUS CHINENSIS) OIL	liquid
CASTOR (RICINUS COMMUNIS) OIL	soft gel
OLIVE (OLEA EUROPAEA) OIL	liquid
SOYBEAN (GLYCINE SOJA) OIL	liquid
MACADAMIA TERNIFOLIA NUT OIL	liquid

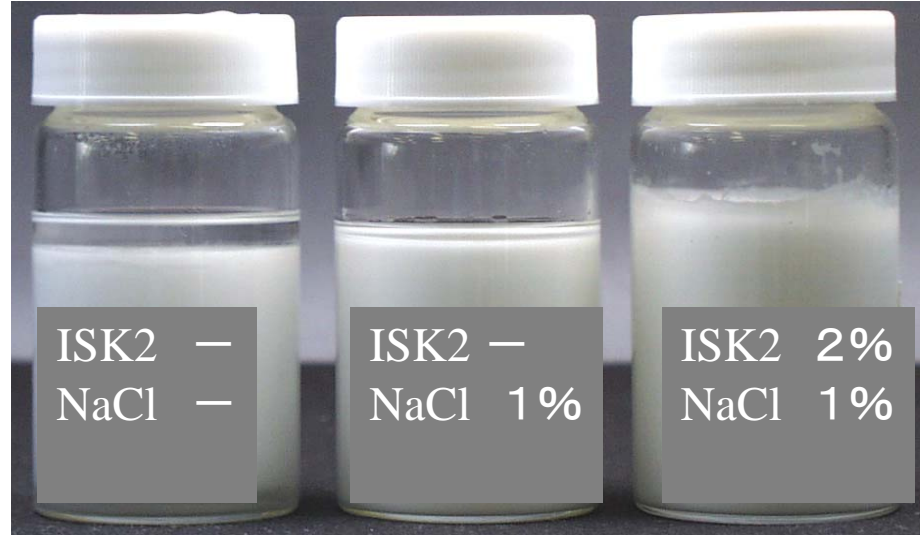
*All measurements were done at 30 degrees by using Rheometer, ϕ 2

Function 2: Stabilization of emulsion system

Stabilization of Water/Silicone Emulsions

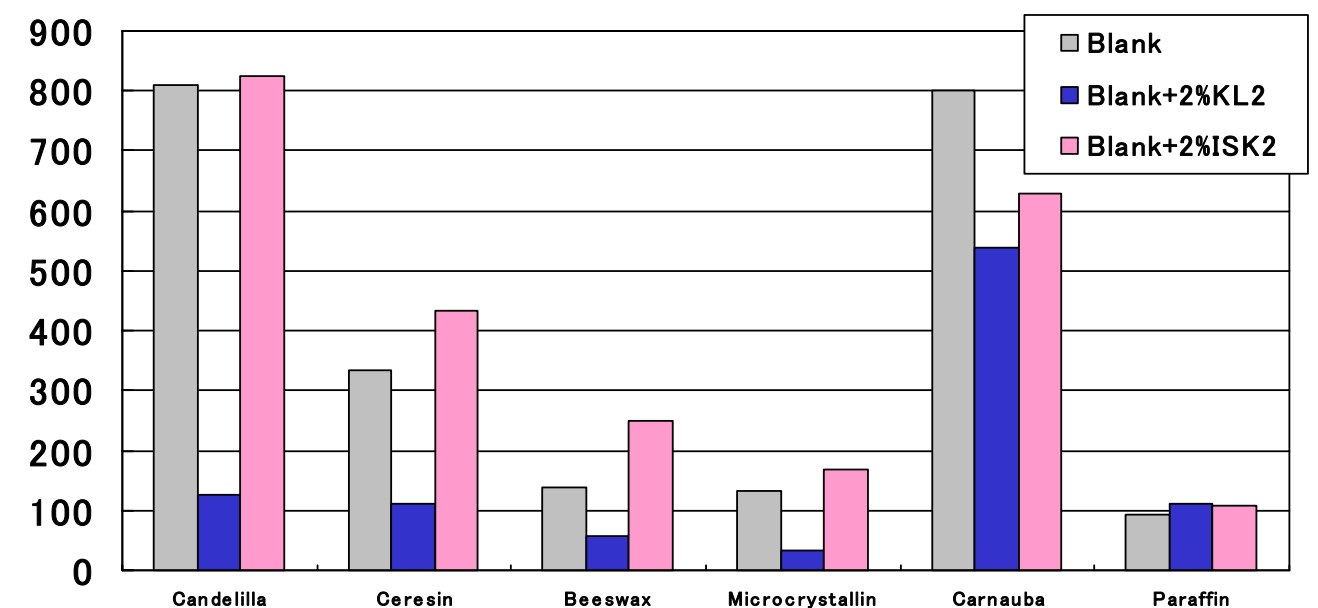
W/S Cream formulation

Rheoparl ISK2	2
ISOTRIDECYL ISONONANOATE	5
CYCLOMETHICONE	20
DimethiconeCopolyol (Polyoxyethylene·Methylpolysiloxane Copolymer)	2
NaCl	1
Water	63
1,3-Butylene Glycol	7



Rheoparl ISK2 enables water-and-silicone-only emulsions to be stabilized without solubilizers (such as ester oils), since ISK2 can be dissolved directly into the cyclomethicone portion of the silicone phase. On the other hand, utilization of KL2 or TT2 in a W/S system requires a portion of the silicone phase to be replaced by hydrocarbons or esters to dissolve KL2 or TT2.

Function 3: Rheological modification of wax



Rheoparl ISK2 could modify the hardness of anhydrous systems containing wax. On the other hand, Rheoparl KL2 softens anhydrous systems containing wax (such as lipstick) by inhibiting the growth of wax crystals.