Ikeda NOMCORT® GELLANTS

▸NOMCORT® HK-G

INCI name: Glyceryl Behenate/Eicosadioate
Composition: A mixture of esters of glycerin with behenic and eicosadioic acids
Appearance: Pellet form; white to pale yellow, waxy solid

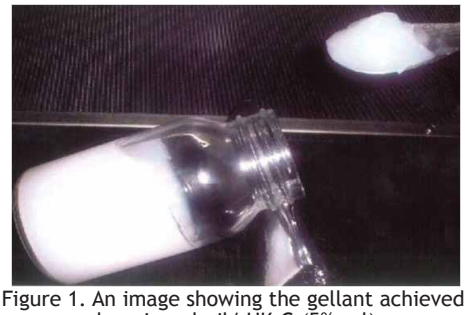
Figure 1. An image showing the gellant achieved by mineral oil/ HK-G (5% gel)

Properties:

- An oil gelling agent for a smooth gel with thixotropic qualities
- Gel strength (5% w/w) in descending order of oil success: diisostearyl malate, polyglyceryl-2 triisostearate, castor oil, phenyl methicone, squalane, jojoba oil, and mineral oil
- Gel strength is increased by adding higher concentrations of HK-G to oils and can also be used in combination with other gellants
- Can be used as a thickener and a stabilizer in water-in-oil preparations
- Melt temperature is approximately 65°C

▸NOMCORT® HK-P

INCI name: Polyglyceryl-10 Behenate/Eicosadioate
Composition: Ester of decaglycerin and a blend of behenic and eicosadioic acids
Appearance: A white to pale yellow, waxy solid pellet
Properties:

- An alcohol gelling agent
- Gelling properties in a wide range of alcohols, listed in descending order ethanol, glycerin, and propylene glycol
- Gel properties dependent on alcohol used and is increased by adding higher concentrations of HK-P to the respective alcohols
- Melts at approximately 68°C
- Can be used as a thickener and stabilizer for oil-in-water preparations

▸NOMCORT® AG

INCI name: Agar (And) Xanthan Gum
Properties:

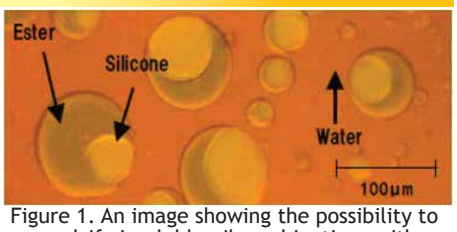

Figure 1. An image showing the possibility to emulsify insoluble oil combinations with large particle sizes

- Eco-friendly emulsifying system of AG makes easy to prepare surfactant-free emulsions with several kinds of oil including high polar esters and insoluble oil combinations
- Possible to emulsify several kinds of oil without considering polarity such as constituents like non-polar hydrogenated polydecene, low polar ester cetyl ethylhexanoate, high polar ester polyglycerl-2 triisostearate, silicone cyclomethicone, and UVB absorber ehtylhexyl methoxycinnamate.
- Can develop new emulsion products related to oil texture with large particle sizes

Applications: Whitening emulsions, cleansing gels, cream foundation, sunscreen lotion, and in formulations with high salt levels (ex. 3 wt/wt% of magnesium ascorbyl phosphate)
Usage Levels: Between 1.5-2.0 (wt/wt)%

GELLANTS

iKeda

NISSHIN OILLIO "The Natural Power of Plants"

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NOMCORT® CG

INCI name: Xanthan Gum (and) Ceratonia Siliqua Gum

Properties:

- A highly elastic natural polymer
- Water soluble and derived from vegetables which makes it easy to formulate into a transparent gel
- The subsequent gel imparts a skin covering effect, and is compatible with active ingredients such as collagen, and vitamin C derivatives
- Easy to mold in a particular form and has anti-freezing capabilities
- The gel strength (figure 1) and viscosity (figure 2) is directly proportional to the amount of Nomcort® CG used

Applications: Aroma gel, serum, and translucent mascara (Concentrations of 0.1-1.0%.)

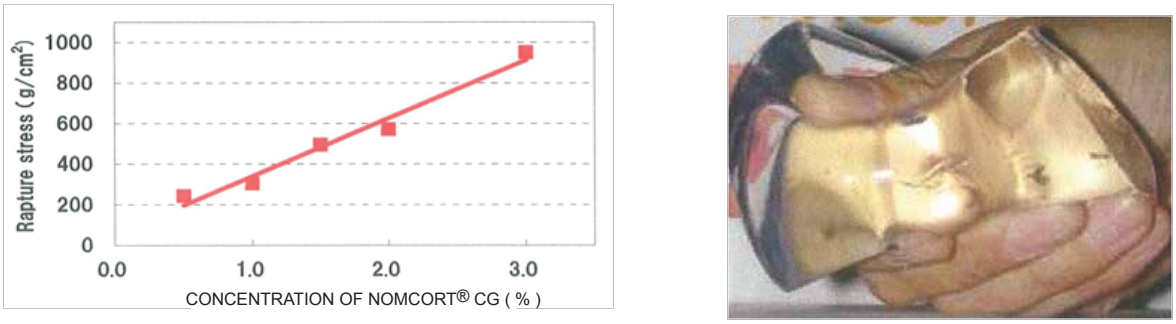

Figure 1. Proportional nature of gel strength versus concentration of Nomcort® CG (left) and gel strength by manual demonstration (right)

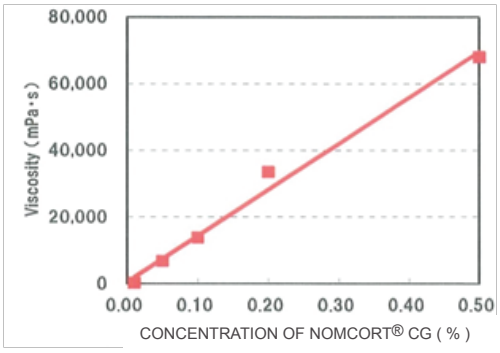

Figure 2. Proportional nature of viscosity versus concentration of Nomcort® CG