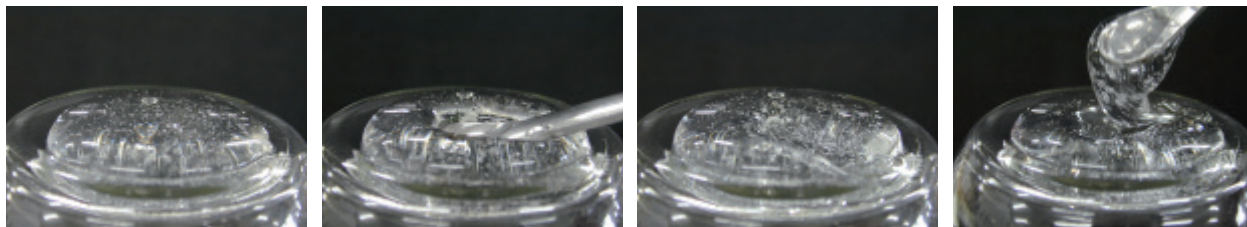


– Hydrogelator – ADEKA NOL GT-730



- ADEKA NOL GT-730 is a diluted product of ADEKA NOL GT-700, a water-based thickening and gelling agent.
- It has an improved water solubility and is capable of gel preparation at room temperature.
- A BHT-free product.

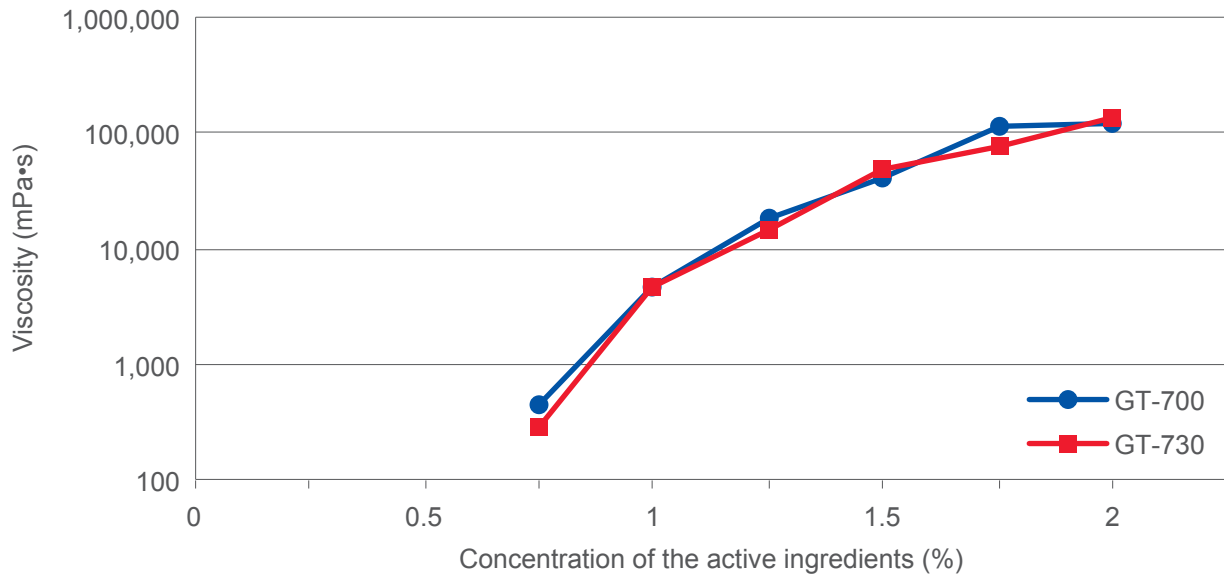
Product Composition

Cosmetic label name	INCI name	Compounding amount (wt%)
PEG-240/HDI copolymer bis-decyltetradeceth-20 ether	PEG-240/HDI COPOLYMER BIS-DECYLTETRADECETH-20 ETHER	30
BG	BUTYLENE GLYCOL	50
Water	WATER	19.94
Potassium laurate ^(*1)	POTASSIUM LAURATE	0.03
Tocopherol ^(*1)	TOCOPHEROL	0.03

(*1) Carry-over ingredients

Aqueous Solution Behavior

(1) Relationship between the added amount and viscosity



(2) Shear rate-viscosity curve

A thixotropic gel is formed.

A fine mist is created with good spray discharge.



(3) Self-restoring properties

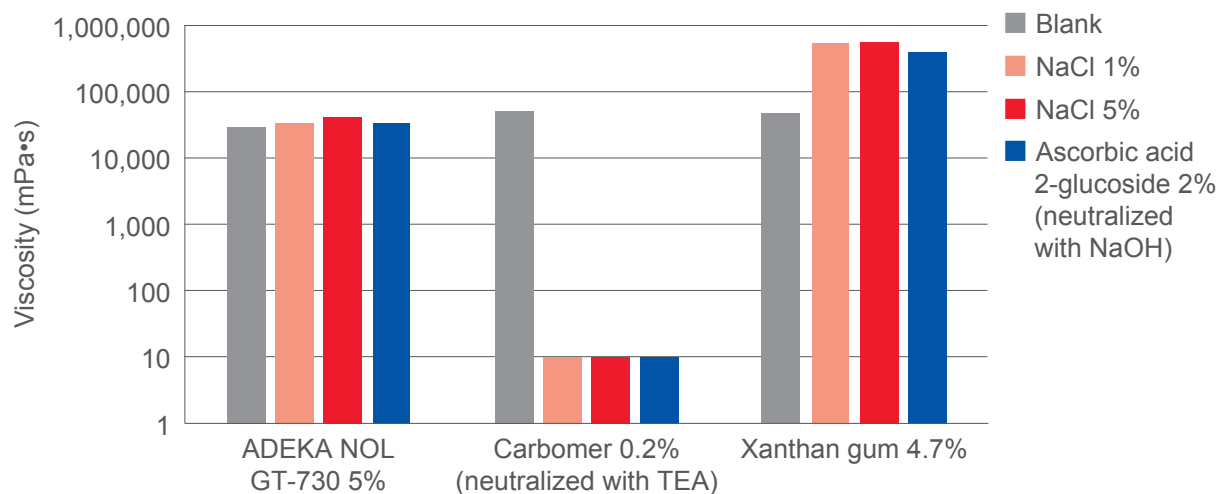
Collapsed gel is promptly restored to its original state.

Immediately after agitation

30 seconds later



(4) Influence of salts






GT-730, which is a nonionic polymer, can be used with both inorganic and organic salts without reducing its viscosity.

Dissolution Methods

A uniform gel is obtained by adding ADEKA NOL GT-730 to warm water at 40 to 50°C and stirring in a paddle or disperser mixer. It can be blended into water at room temperature but requires a longer stirring time. Furthermore, it turns into a cloudy liquid when heated to 60°C or higher. Therefore, it needs to be cooled while stirring.

Stirring conditions and time required for dissolution under lab-scale conditions

Stirring device		Temperature (°C)	Stirring speed (rpm)	Duration
	Paddle mixer	25	250	3h
		50		1h
	Homo mixer	25	4000 - 6000	20 min
		50	2000 - 4000	10 min
	Disperser mixer	25	4000 - 6000	20 min
		50	2000 - 4000	10 min

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