

SJgel series

Powerful Moisturizer & Lubricant



Innovation, challenge, investigate customer-oriented
Always challenges to provide a new value to customers and society

SJ chem
SKILLED/TRAINED
MANPOWER'S CEASELESS
EFFORTS

SJgel series

POWERFUL MOISTURIZER & LUBRICANT
WITH EXCELLENT SENSORY FEELING AND
RHEOLOGICAL MODIFIER

PROPERTY & BENEFIT

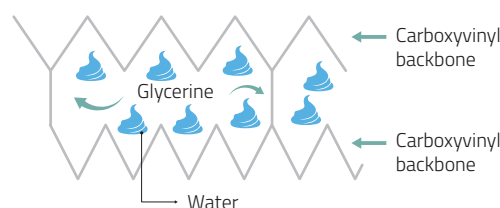
- Colorless clear gel for elegant products
- Weak acid: pH 5-6, favorable for skin (pH of Normal skin: 5.2~5.8)
- Water-soluble: non-oily emollient and cold processing production
- Build the wide range of viscosity
- Hydration: excellent moisturizers from highly polymerized structure
- Excellent lubricant: good sensory feeling
- Highly stable structure: make more stable products

SPECIFICATION

Trade name	SJgel CG	SJgel MS	SJgel DV	SJgel OIL
INCI Name	Glycerin and Glyceryl Acrylate/ Acrylic Acid Copolymer	Glycerin and Glyceryl Acrylate/ Acrylic Acid Copolymer	Glycerin and Glyceryl Acrylate/ Acrylic Acid Copolymer	Glycerin and Glyceryl Acrylate /Acrylic Acid Copolymer and PVM/MA Copolymer
	Solvents & preservatives Glycerin & 1,2-Hexanediol			
Appearance	Clear, colorless, Viscous gel	Clear, colorless, Viscous gel	Clear, colorless, Low viscous liquid	Clear, colorless, Low viscous liquid
pH	5.0-6.0	5.0-6.0	5.0-6.0	5.0-6.0
Refractive Index	1.415-1.435	1.380-1.400	1.380-1.400	1.380-1.410
Viscosity	250,000-350,000	250,000-350,000	900,000-1,200,000	500-1,500
Unique advantages of grade	General grade	The loss of viscosity in aqua solution is less than CG because of different holding capacity of water	The highest viscosity High yield value → Good for emulsion stabilization and suspension of TiO ₂ , un-ionized pigments, micas, etc.	Similar feel to silicon oils
Application	- Facial moisturizers - Skin toners - Cleansing gels	- Sun screen creams - Body lotions & creams - Eye round gels	- Makeup Removers - Skin lotions & creams - Massage Creams	

MECHANISMS | Unique chemical structure

Moisturizing and lubricative effect when highly polymerized structure release water



HOW TO RELEASE WATER?

Destruction of structure by

- 1 Addition of Ionic materials
- 2 Addition of Acids or alkali

Salt content or change of pH on the skin
Generally, the salt content at the skin Surface gradually disintegrate this highly polymerized compound holding water. The compound release water, and then make moisturizing effect.

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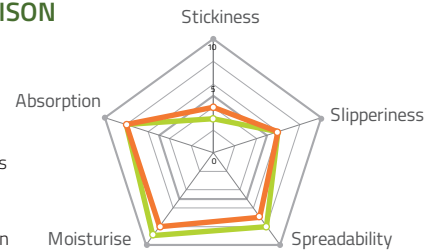
FUNCTIONAL ADVANTAGES

1 Thickeners
 2 Lubricants
 3 Rheology modifiers
 4 Moisturizers

AQUA BOOST GEL TO WATER SENSORY COMPARISON

- SJgel CG
- Benchmark

The sensory of the formula is similar to the benchmark with an lowered stickiness immediately upon application

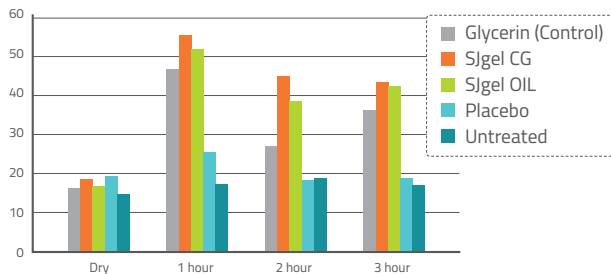


APPLICATION

- Recommended concentration: 5-30%
- Applicable product: Facial moisturizers, Mask sheet, creams, body lotions, etc.

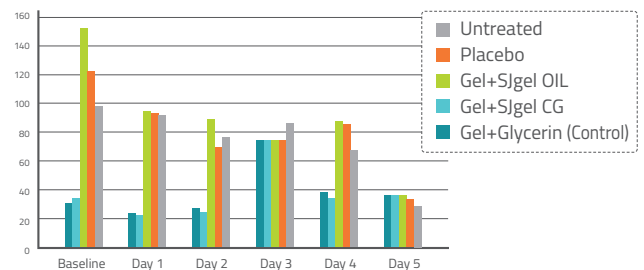
MOISTURIZING TEST

- Short-term Moisturization (3 hours)



There was a significant increase in moisturization between SJgels compared with both the placebo and no treatment

- Moisturization Clinical Data Long-term (8 days)



SJgel provide a significant increase in moisturization during treatment and after regression compared to the placebo and no treatment

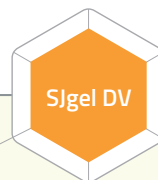
USES



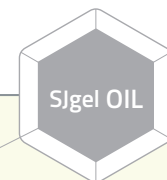
Concentrations : 5-50% depending on the degree of moisture balancing, rheological considerations and aesthetics desired in the product. Added at post-emulsion formation in creams and lotions. It is often added before the cool-down of hot emulsions. It may also be used to stabilize cold manufactured emulsions.



Especially suitable for use in creams, lotions, makeups and other personal care and cosmetic products. Concentrations : 10 - 20 % for Moisturization 10 - 50 % for rheological modification.



General dosage is 7-50% in cream & lotion. It's dosage depends on the degree of moisture balancing, rheological considerations and aesthetics desired in the product.



Concentrations : 3% - 5% in hand lotions for a superior after-feel as well as excellent spreading and a superb feel upon application. SJgel OIL can be used to substitute for silicone oils.