



SOLVAY

asking more from chemistry®

**Natural-Derived Rheological
Solutions with Sensory
Appeal**
**天然来源
流变+肤感改良剂**

Importance of Rheology Solutions

流变的重要性

- Help formulators control texture, i.e. viscosity, suspending, as well as flow and application properties 调整质地，例如粘度、悬浮性、流动性以及涂抹
 - Control flow properties to dispense from diverse packages 包装的需要
 - Provide stability in challenging situations: 极端条件
 - High salt and/or electrolyte content 高盐或高电解质
 - Suspension of particulates (e.g. pigments) 悬浮颗粒或颜料
 - Extreme pH conditions due to actives 活性物的极端pH
 - High oil contents 高油含量



Importance of Rheology Solutions

流变的重要性

- Improve the consumer's overall sensory experience 提高感官感受
 - Create pleasing aesthetics: suspended beads, bubbles, actives...例如愉悦的感受
 - Control spreading properties upon application 调整涂抹性
 - Easy to spread products skin care products are preferred by consumers
 - Uniform layer of product on skin is crucial for efficacy, i.e. sun protection products
 - Provide pleasing skin feel during and after application (e.g. non-sticky, smooth, velvety, silky) 提供使用后和使用时的愉悦肤感

Unique
Textures

Natural

Multi-Functional
Beauty Products

Make-it-mine



Alphabet Creams



Masks



Invisible Shield

Whitening & Hydrating Sleeping Mask

美白保湿睡眠面膜(SC-17-095)

	Ingredients (INCI)	Function	%
A	Deionized Water	-	QS
	Glycerin	Humectant	3.0
	Rheozan® SH⁽¹⁾ (Succinoglycan)	Thickener	0.3
	Jaguar® HP105⁽¹⁾ (Hydroxypropyl Guar)	Thickener	1.5
B	Mackaderm® LIA⁽¹⁾ (Isoamyl Laurate)	Emollient	4.0
C	Glycolic Acid	Active	3.0
	Hydroviton Plus ⁽²⁾ (Water, Pentylene Glycol, Glycerin, Fructose, Urea, Citric Acid, Sodium hydroxide, Maltose, Sodium PCA, Sodium Chloride, Sodium Lactate, Trehalose, Allantoin, Sodium Hyaluronate, Glucose)	Active	3.0
	Extrapone Apple ⁽²⁾ (Water (and) Propylene glycol (and) Pyrus Malus Fruit Juice)	Active	0.1
	Extrapone Peach ⁽²⁾ (Water (and) Propylene glycol (and) Prunus Persica Juice)	Active	0.1
	Extrapone Lemon ⁽²⁾ (Water (and) Propylene glycol (and) Citrus Lemon Juice)	Active	0.1
	Extrapone Cranberry B ⁽²⁾ (Water (and) Propylene glycol (and) Vaccinium Macrocarpon)	Active	0.1
D	SymOcide PS ⁽²⁾ (Phenoxyethanol, Decylene Glycol, 1,2-Hexanediol)	Preservative	1.0

- **Rheozan SH:** Natural thickener with smooth, velvety after-feel. 天然增稠剂，带来丝滑天鹅绒般肤感
- **Jaguar HP-105:** natural-derived thickener which gives transparency at wide pH range; compatible with polar solvents (e.g. ethanol) 天然来源增稠剂，在广泛的pH范围内保持透明，和极性溶剂相容。



Photo from internet



SOLVAY

asking more from chemistry®

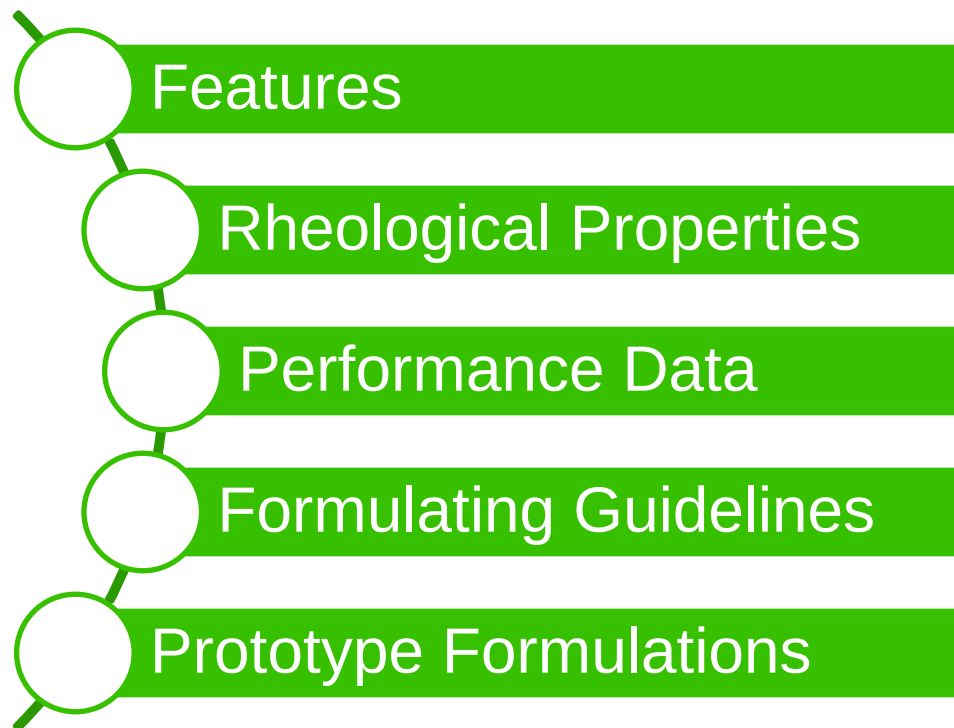
Rheozan® SH

Natural Rheology Polymer
for Smooth & Velvety Skin Feel

天然来源聚合物
丝滑天鹅绒肤感



Content



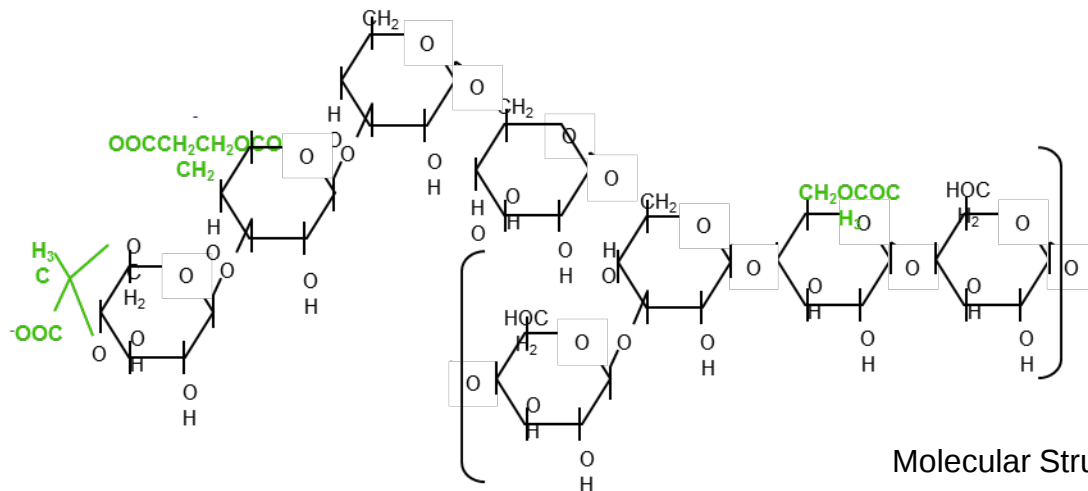


Rheozan® SH

Features

INCI: Succinoglycan Gum 琥珀酰聚糖

- Supplied as a free-flowing powder 自由流动的粉末
- 7 Glucose 葡萄糖, 1 Galactose 半乳糖
- MW = ~6,000,000



Rheozan SH is produced
via fermentation of
agrobacterium tumefaciens
发酵而来

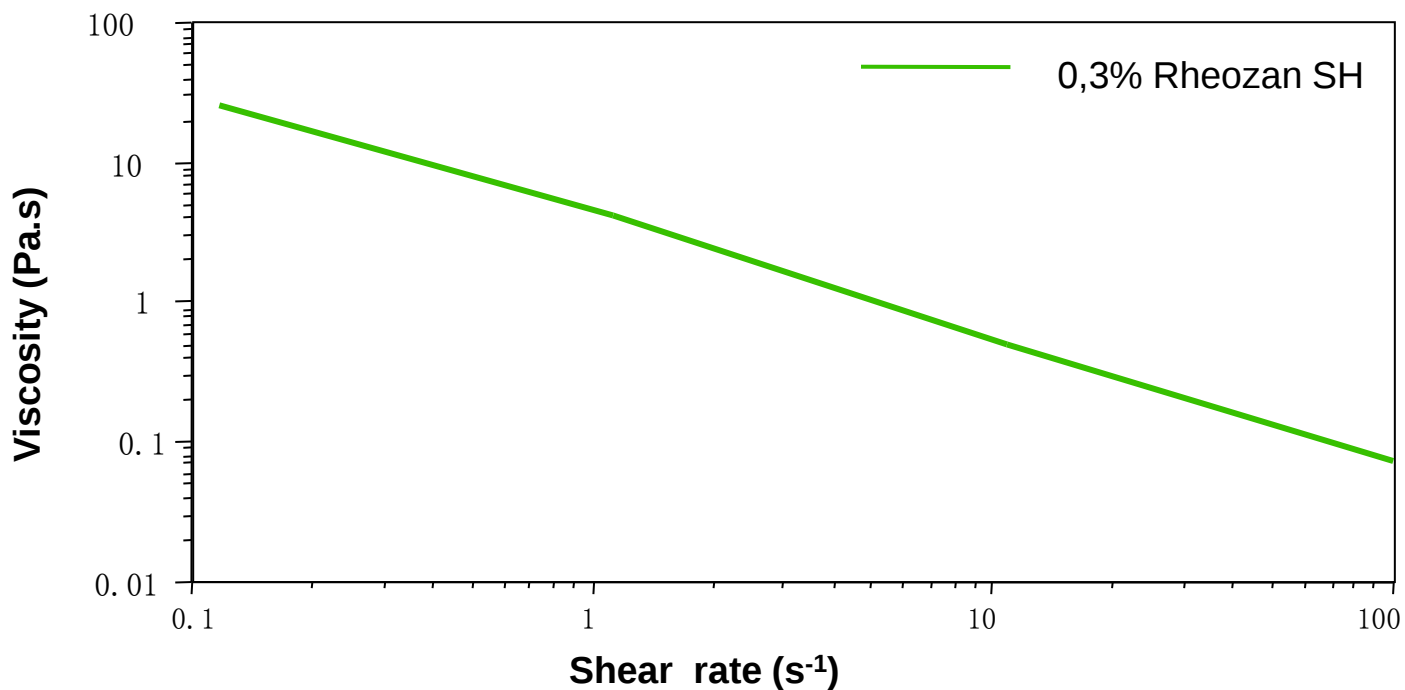
Molecular Structure of Succinoglycan

有机认证 Validated Natural by **Ecocert®**



Rheozan[®] SH

Rheological Properties



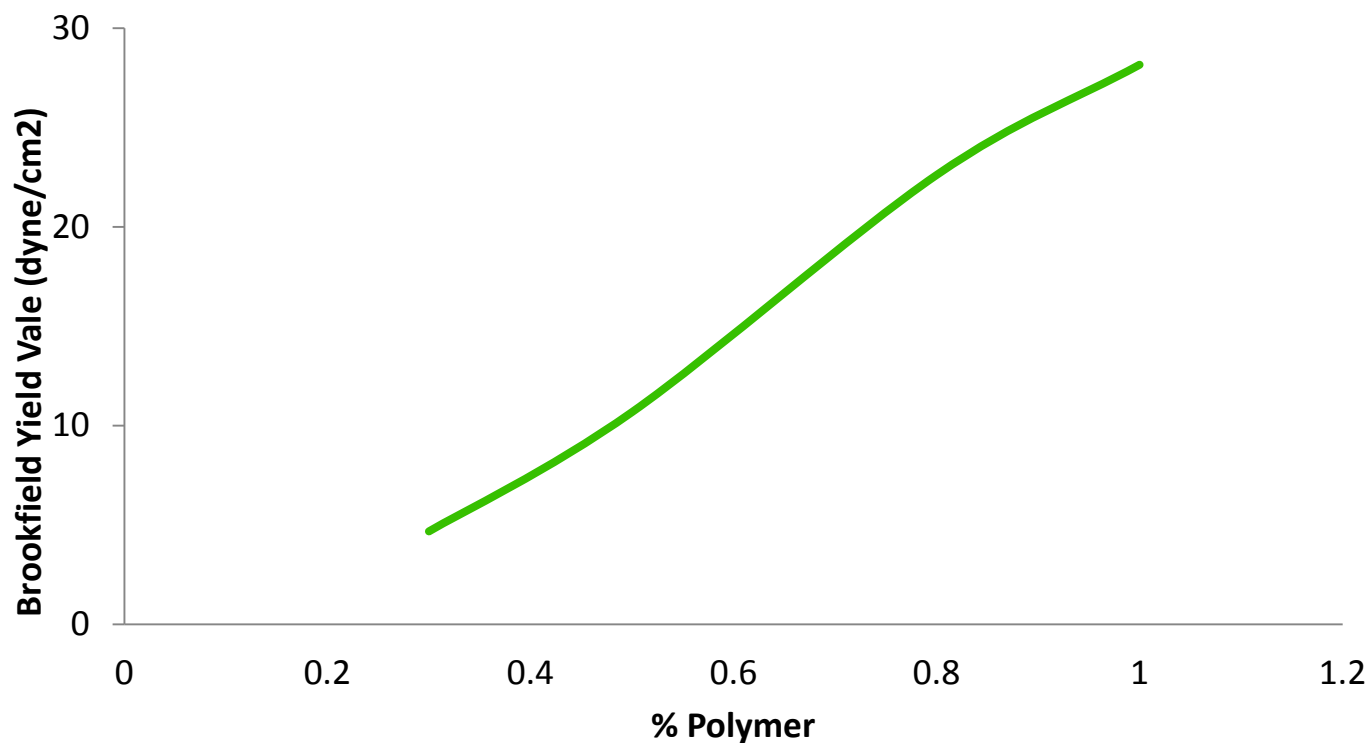
Rheozan[®] SH is pseudo-plastic (shear-thinning) 假塑性



Rheozan[®] SH

Rheological Properties

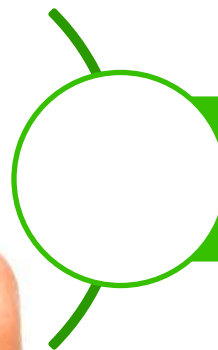
Yield Value 屈服值 vs Concentration



Rheozan[®] SH exhibits suspension/stabilization properties
悬浮稳定能力



Performance Data

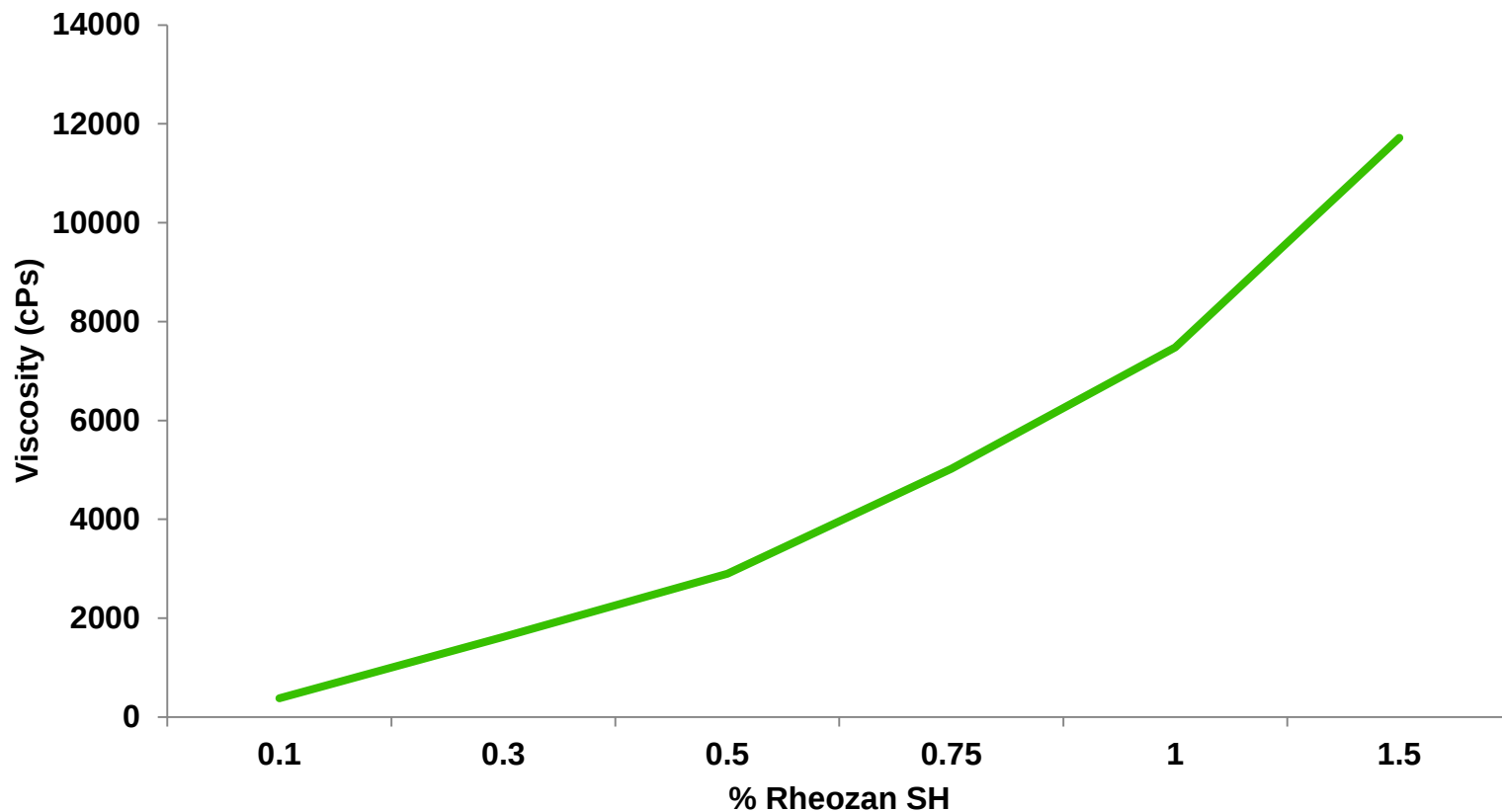


Aqueous Systems



Rheozan[®] SH

Viscosity in Water 水溶液粘度



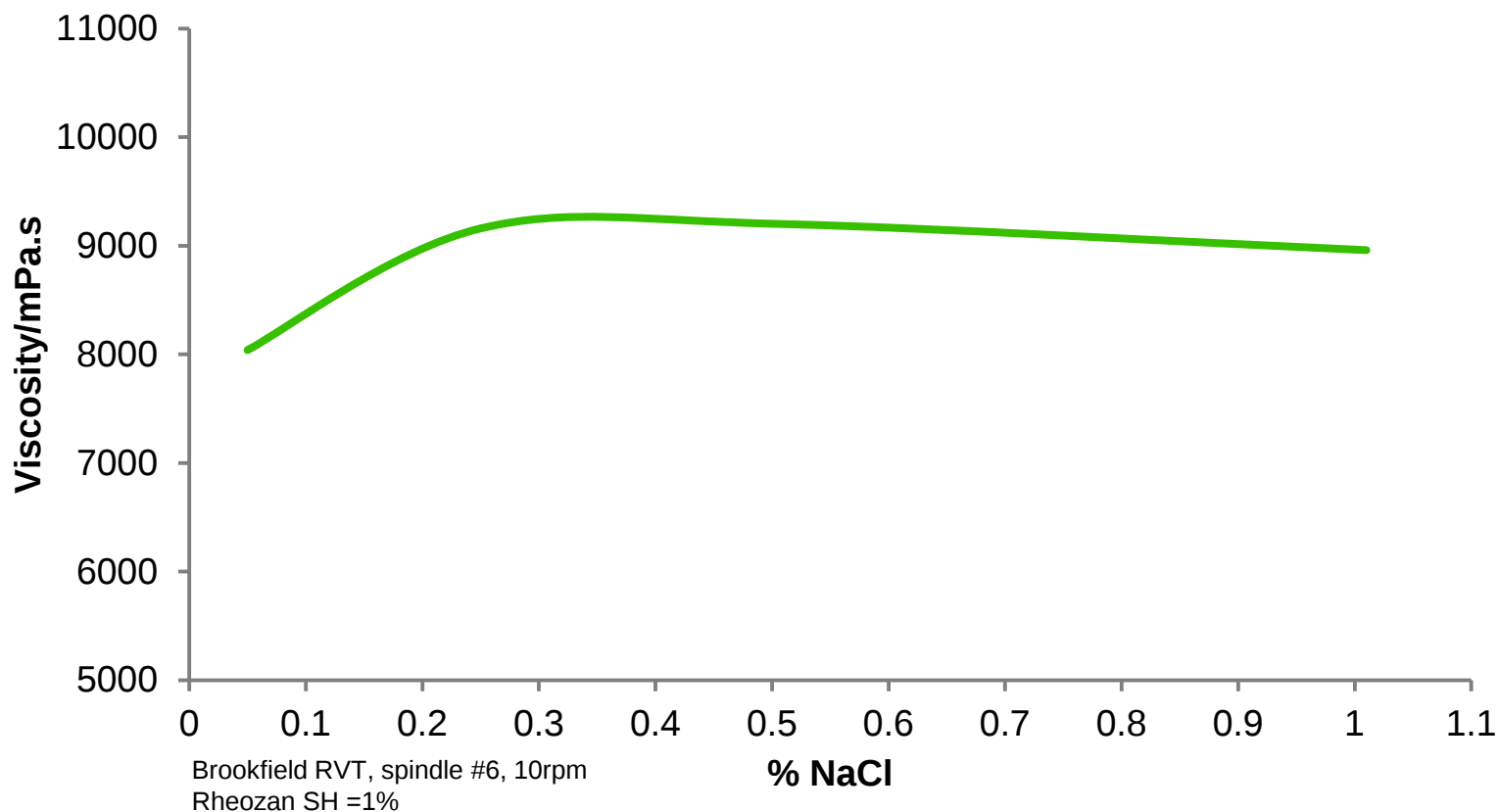
Brookfield RVT, spindle #6, 10rpm

Rheozan[®] SH viscosity is proportional to its concentration in water



Rheozan® SH

Effect of Salt/Electrolyte on Viscosity 盐或电解质耐受性

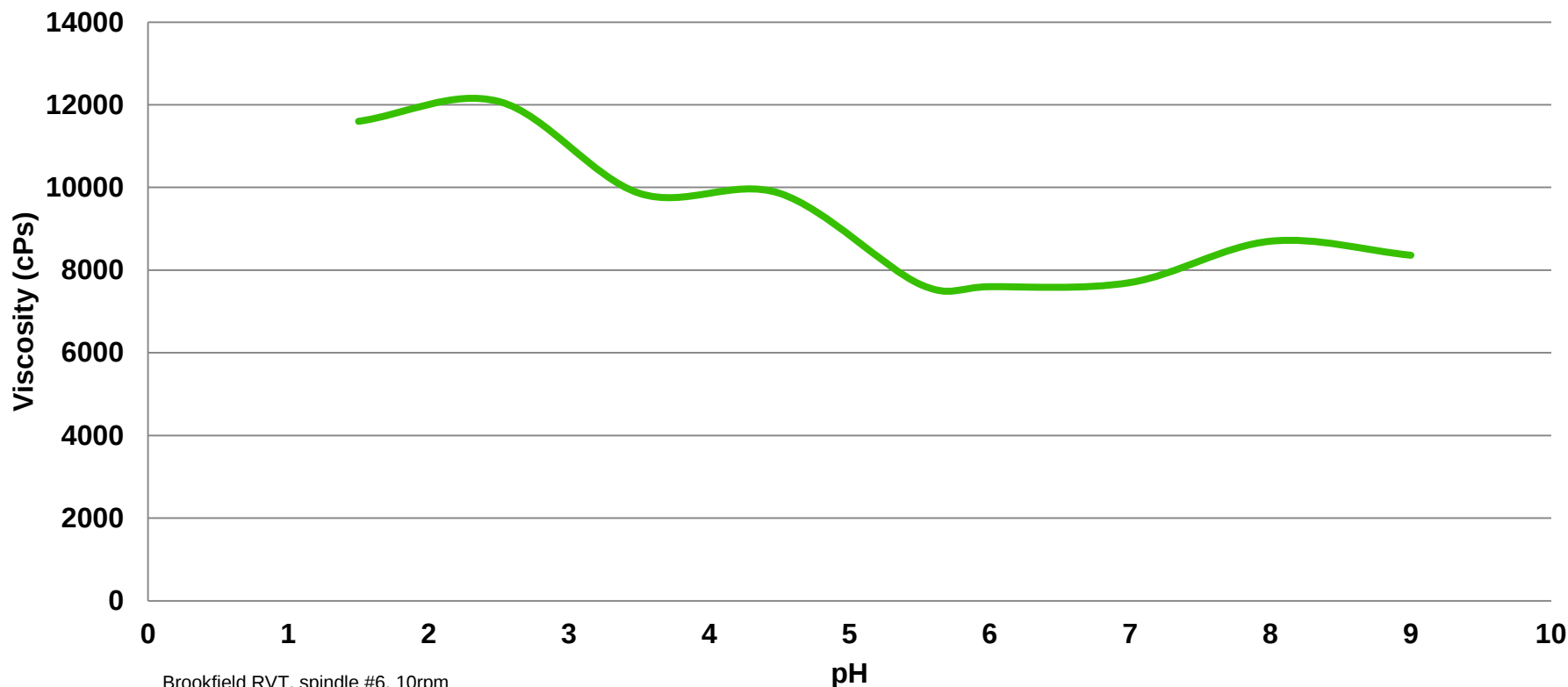


Rheozan® SH has excellent tolerance to electrolytes
极佳的电解质耐受力



Rheozan® SH

Viscosity Response to pH in Water

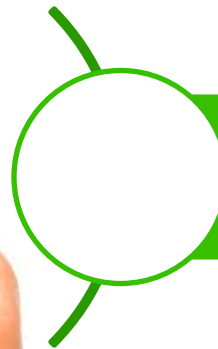


Brookfield RVT, spindle #6, 10rpm
Rheozan SH = 1%

**Rheozan® SH exhibits tolerance to wide pH range;
Excellent performance at low pH 宽泛的pH适用范围**



Performance Data

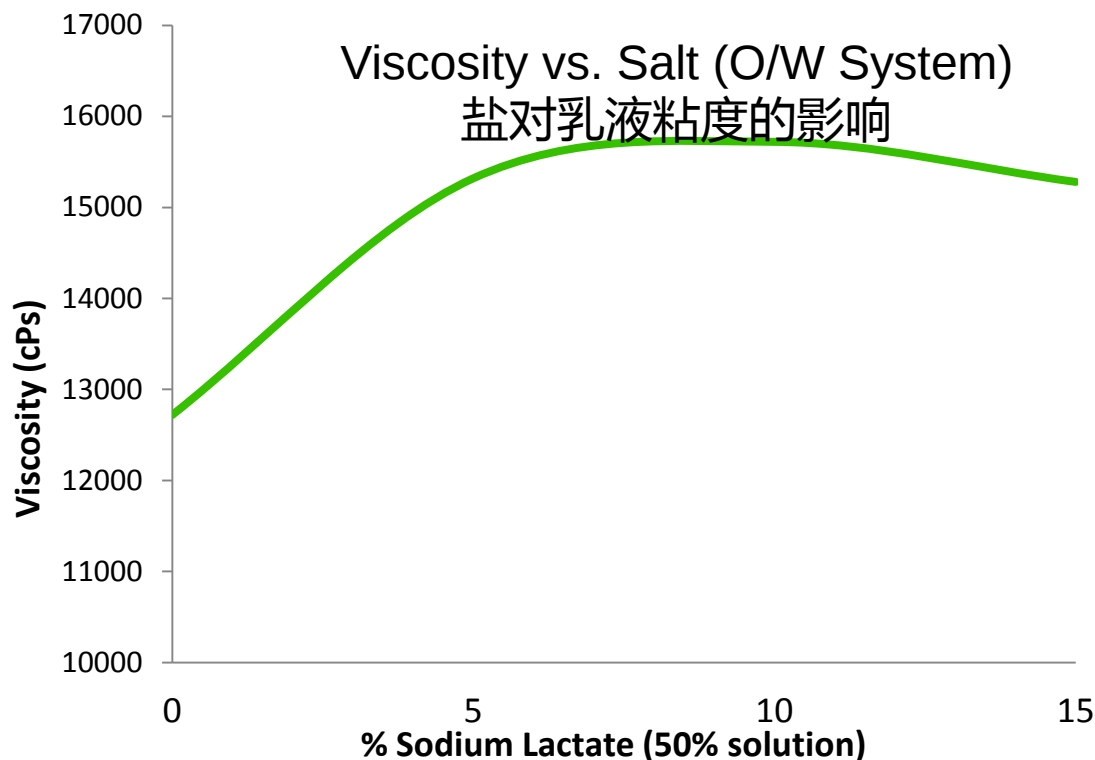


O/W Emulsions



Rheozan[®] SH

Electrolyte Tolerance in O/W Emulsion



Brookfield RVT, spindle #6, 10rpm

	% w/w
Water	Bal 100
Mackamide LAME	3.0
Rheozan SH	0.5
Alkamuls GS-100 (Glyceryl Stearate & PEG-100 Stearate)	4.5
Mackaderm OP (Ethyl Hexyl Palmitate)	6.0
Mackaderm IPM (Isopropyl Myristate)	6.0
CS alcohol	1.5
Sodium Lactate	q.s
pH	~3.8

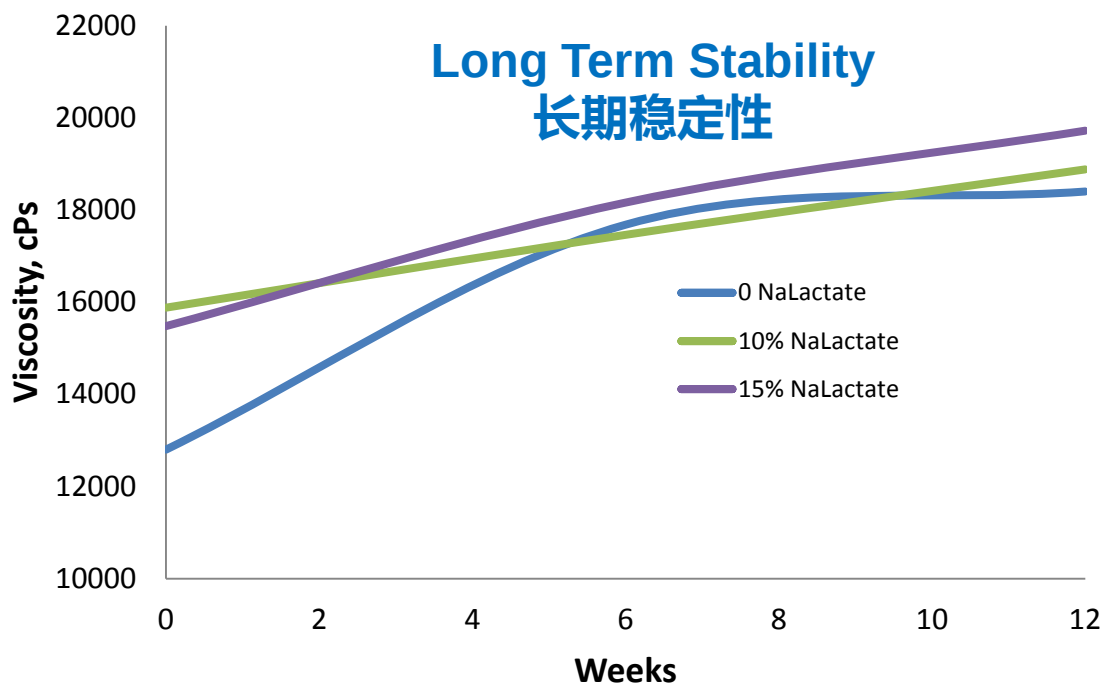
Stability: 12 wks @40C; 4 wks @50C
All formulations are stable

Rheozan[®] SH is an excellent stabilizer of o/w emulsions containing electrolytes 在电解质配方中是极佳的稳定剂



Rheozan® SH

Electrolyte Tolerance in O/W Emulsion



	%, w/w
Water	Bal 100
Mackamide LAME	3.0
Rheozan SH	0.5
Alkamuls GS-100 (Glyceryl Stearate & PEG-100 Stearate)	4.5
Mackaderm OP (Ethyl Hexyl Palmitate)	6.0
Mackaderm IPM (Isopropyl Myristate)	6.0
CS alcohol	1.5
Sodium Lactate	q.s
pH	~3.8

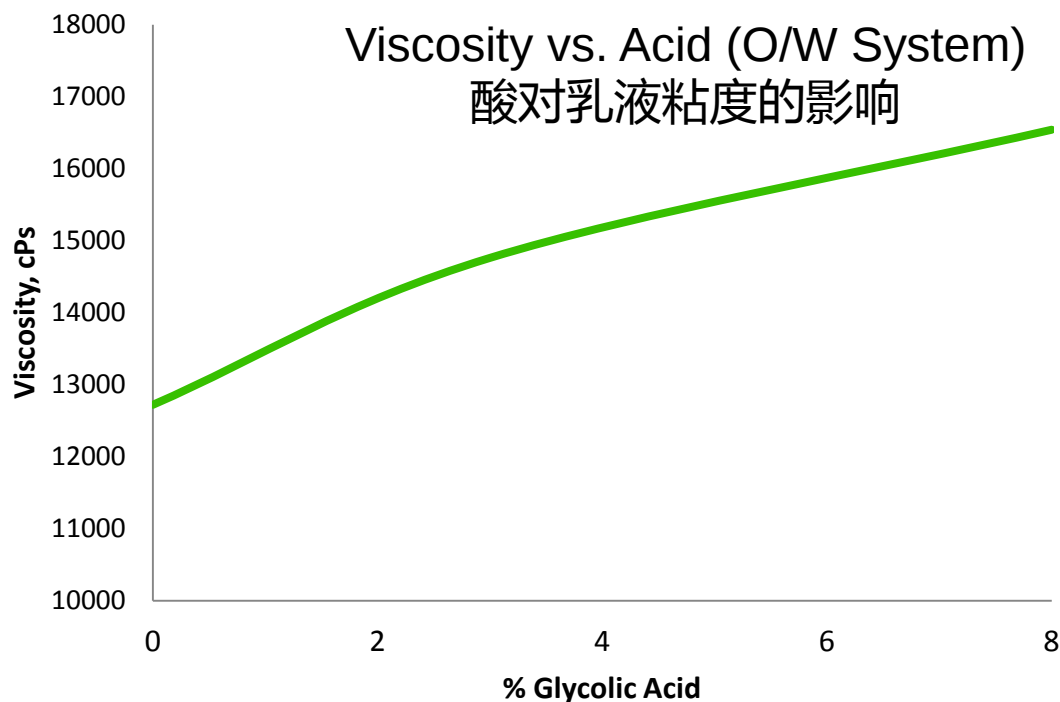
Stability: 12 wks @40C; 4 wks @50C
All formulations are stable

Rheozan® SH provides long term stability to emulsions containing salts/electrolytes
在电解质配方中长时间的稳定性



Rheozan® SH

Performance in Highly Acidic Systems



Ingredients	%, w/w
Water	78.7
Mackamide LAME	3
Rheozan SH	0.5
Alkamuls GS-100 (Glyceryl Stearate & PEG-100 Stearate)	4.5
Mackaderm OP (Ethylhexyl Palmitate)	6
Mackaderm IPP (Isopropyl Palmitate)	6
CS alcohol	1.5
Glycolic acid	q.s.

Stability: 12 wks @40C; 4 wks @50C
All formulations are stable

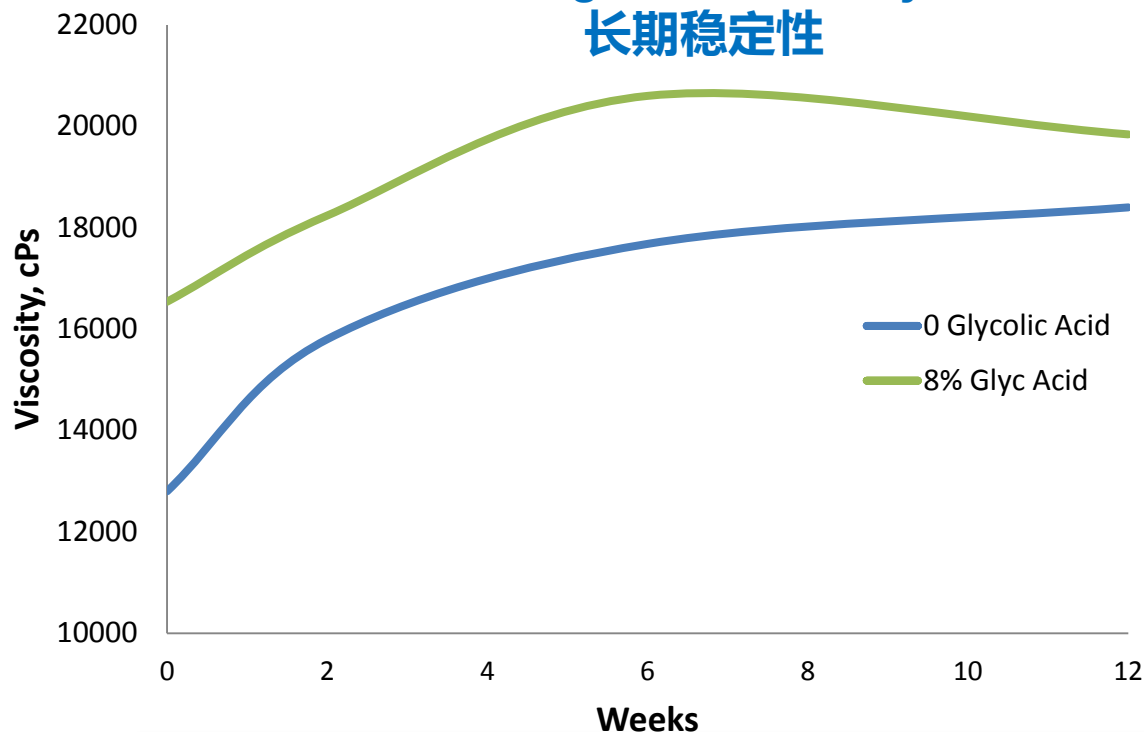
Rheozan® SH is an excellent stabilizer of o/w emulsions containing acidic actives 在酸性配方中是极佳的稳定剂



Rheozan® SH

Performance in Highly Acidic Systems

Long Term Stability 长期稳定性



Ingredients	%, w/w
Water	78.7
Mackamide LAME	3
Rheozan SH	0.5
Alkamuls GS-100 (Glyceryl Stearate & PEG-100 Stearate)	4.5
Mackaderm OP (Ethylhexyl Palmitate)	6
Mackaderm IPP (Isopropyl Palmitate)	6
CS alcohol	1.5
Glycolic acid	q.s.

Stability: 12 wks @40C; 4 wks @50C
All formulations are stable

Rheozan® SH provides long-term stability to o/w emulsions containing acidic actives 在酸性配方配方中的长期稳定性

Formulating with Rheozan[®] SH



Guidelines



Example Formulations



Rheozan® SH

Formulating Guidelines 配方技巧

- It is recommended to pre-mix Rheozan SH with glycerin, glycols and similar materials for easier dispersion and to avoid agglomeration. Add this premix to the water phase of your formulation, with moderate-to-high speed mixing. 与多元醇预混再加入水中
- Mix for a few minutes to ensure Rheozan SH is completely hydrated (and no lumps/aggregates are visible) 确保没有结块
- No pH adjustment is necessary. 无需pH调节
- Rheozan SH is suitable for both hot and cold processes. 冷热工艺均可

Natural BB Cream 天然概念BB霜 (SC-17-070)

	Ingredients (INCI)	Function	%
A	Deionized Water	-	QS
	Glycerin	Humectant	3.0
	Rheozan® SH⁽¹⁾ (Succinoglycan)	Humectant	0.4
B	Dermalcare® SSL (Sodium Stearoyl Lactylate)	Emulsifier	3.0
	Mackester® PGPR (Polyglyceryl-3-Polyricinoleate)	Co-emulsifier	1.0
	Cetearyl Alcohol	Co-emulsifier	2.0
	Mackaderm® LIA (Isoamyl Laurate)	Emollient	6.0
	Mackaderm® MCT (Capric/Caprylic Triglyceride)	Emollient	5.0
	Titanium Dioxide	Pigment	5.0
	Iron Oxide Red	Pigment	0.2
	Iron Oxide Yellow	Pigment	1.3
C	SymMatrix ⁽²⁾ (Maltodextrin (and) Rubus Fruticosus (Blackberry) Leaf Extract)	Active	0.2
D	Preservative		q.s.

pH = 6.7; Brookfield Viscosity @25C, 10rpm, s#6 = 10,120 mPas
Stable 3 months at 25 °C and 40 °C; 1 month at 50 °C

➤ **Rheozan SH:** Natural thickener with smooth, velvety after-feel. Due to its yield value profile, Rheozan SH helps in the suspension of particulates (e.g. color pigments) in o/w emulsions. 天然带来的丝滑天鹅绒般肤感，并在O/W乳液中悬浮颗粒色素。

➤ **Mackaderm LIA:** natural-derived emollient with a light, non-greasy skin feel and excellent spreadability 天然来源的润肤剂，极佳铺展性，无油腻肤感，



1: Solvay 2: Symrise

Skin Fairness Facial Cream 洁白面霜 (AP-378-050-02)

	Ingredients (INCI)	Function	%
A	Deionized Water	-	QS
	Mackamide® LAME-100 ⁽¹⁾ (Acetamide MEA (and) Lactamide MEA)	Humectant	4.0
	Rheozan® SH⁽¹⁾ (Succinoglycan)	Thickener	0.3
B	Alkamuls® GS 100⁽¹⁾ (Glyceryl Stearate (and) PEG-100 Stearate)	Emulsifier	4.0
	Isononyl Isononanoate	Emollient	3.0
	Mackaderm® OC ⁽¹⁾ (Ethylhexyl Cocoate)	Emollient	6.0
	Neo Heliopan AV ⁽²⁾ (Ethylhexyl Methoxycinnamate)	Sunscreen active	5.0
	Neo Heliopan OS ⁽²⁾ (Ethylhexyl Salicylate)	Sunscreen active	4.0
	Cetearyl Alcohol	Co-emulsifier	2.0
C	Lactic acid and Fruit acids	Active	4.0
D	Preservative	Preservative	0.5

➤ **Rheozan SH:** Natural thickener with strong synergy with acidic actives; thus it thickens & stabilizes acidic formulations 天然来源，和酸性活性物协同增稠，并稳定酸性配方。

➤ **Alkamuls GS 100:** Versatile O/W emulsifier. Primary emulsifier for mild acidic and electrolyte containing formulations

➤ **Mackaderm OC:** Non-occlusive emollient, helps reduce tackiness



pH = 4.4; Brookfield Viscosity @25°C, 10rpm, s#6: 18,800 mPas
Stable 3 months at 25 °C and 40 °C; 1 month at 50 °C

1:Solvay 2:Symrise

Anti-Ageing & Hydrating Serum抗衰老保湿霜(SC-16-009)

PHASE	Ingredients (INCI NAME)	Function	W/W%
A	Deionized Water	-	QS
	Mackamide LAME-100 ⁽¹⁾ (Acetamide MEA (and) Lactamide)MEA)	Humectant	3.0
	Glycerin	Humectant	2.0
	Propylene Glycol	Humectant	2.0
	Rheozan SH ⁽¹⁾ (Succinoglycan)	Thickener	0.2
	Rheomer SC Plus ⁽¹⁾ (Acrylates / Beheneth-25 Methacrylate Copolymer)	Rheology Modifier	3.5
	Triethanolamine	pH adjuster	QS
B	Mackaderm MCT ⁽¹⁾ (Caprylic/Capric Triglyceride)	Emollient	2.0
	Ethylhexyl Hydrostearate	Emollient	1.0
	Cyclomethicone	Sensory Enhancer	3.0
	Dimethicone	Sensory Enhancer	2.0
C	Matrixyl 3000 ⁽³⁾ (Glycerin, Aqua, Butylene Glycol, Carbomer, Polysorbate 20, Palmitoyl Tripeptide-1, Palmitoyl Tetrapeptide-7)	Active	3.0
	Dragosine Plus ⁽³⁾ (Water, Pentylene Glycol, Carnosine)	Active	1.0
	Preservative	Preservative	0.5

Suppliers: (1) Solvay (2) Symrise (3) Sederma

➤ **Rheomer SC-Plus:** Rheology modifier with emulsifying property. High spreading, quick-break & non-tacky. Produces fresh, very light skin feel. 有乳化能力的流变改良剂。易铺展、易涂抹、无粘性。带来轻质肤感。

➤ **Rheozan SH:** Natural thickener with smooth, velvety feel during rub-out 天然带来丝滑天鹅绒肤感

➤ The combination of Rheozan SH and Rheomer SC-Plus enables the formulation of an emulsion with very good spreadability and a cushiony, luxurious feel.



1:Solvay 2:Sederma 3:Symrise

Typical Market Products 市场代表产品



**Anessa Perfect Facial UV Sunscreen Aqua Booster
SPF 50+/PA++++**

**Anessa Whitening Essence Facial UV Sunscreen
Aqua Booster SPF 50+/PA++++**

水溶液, 异十二烷, CI 77947, 乙醇(酒精), 甲氧基肉桂酸乙基己酯, 丁二醇, Methyl Methacrylate/PEG/PPG-4/3 Methacrylate Crosspolymer, 甘油, 癸二酸二异丙酯, 乙基己基三嗪酮, 奥克立林, 双-乙基己氧苯酚甲氧苯基三嗪, 蔗糖四硬脂酸酯三乙酸酯, 二乙氨基苯甲酰基苯甲酸己酯, PEG-60氢化蓖麻油, 聚二甲基硅氧烷, 硅石, 糊精棕榈酸酯, Acrylates/Methoxy PEG-90 Methacrylate Crosspolymer, PEG/PPG-14/7二甲基醚, 乙基抗坏血酸, 甘草酸二钾, 东当归根提取物, 欧百里香提取物, 狗牙蔷薇果提取物, 乙酰化透明质酸钠, 透明质酸钠, 姜黄提取物, 聚丙二醇-17, 异硬脂酸, 三乙氧基辛基硅烷, 二甲基丙烯酸酰胺/丙烯酸基二甲基牛磺酸钠交联聚合物, 山梨坦倍半异硬脂酸酯, **琥珀酰聚糖**, 柠檬酸, 二丁基羟基甲苯(BHT), EDTA三钠, 硬脂酸, 焦亚硫酸钠, 柠檬酸钠, PEG-12聚二甲基硅氧烷, 生育酚, fragrance

active ingredients: 氨甲环酸(凝血酸) other ingredients: 水溶液, 环聚二甲基硅氧烷, 癸二酸二异丙酯, 丁二醇, 甘油三(乙基己酸)酯, 甘油, 乙基己基三嗪酮, 双-乙基己氧苯酚甲氧苯基三嗪, 聚二甲基硅氧烷, PEG-60氢化蓖麻油, 蔗糖酯, 二乙氨基苯甲酰基苯甲酸己酯, 水合硅石, 二苯甲酮-3, HDI/三羟甲基己基内酯交联聚合物, 丙烯酸钠/丙烯酸二甲基牛磺酸钠共聚物, 木糖醇, 异硬脂酸, 山梨坦倍半异硬脂酸酯, **琥珀酰聚糖**, PEG/PPG-14/7二甲基醚, 纤维素胶, 柠檬酸, 二丁基羟基甲苯(BHT), 乙二胺四乙酸二钠, 硅石, 硬脂酸, 乙基抗坏血酸, 糊精棕榈酸酯, 洋蔷薇花水, 柠檬酸钠, 东当归根提取物, 矽氧聚合体, 甘草酸二钾, 欧百里香提取物, 刺梨果提取物, 乙酰化透明质酸钠, 透明质酸钠, 洋蔷薇花提取物, 姜黄提取物, 苯氧乙醇, fragrance, CI 77947

Typical Market Products 市场代表产品

Za True White Total Care Cream SPF 24 PA++

Shiseido Prior White Emulsion UV SPF 50+/PA+++

Shiseido Elixir Day Care Revolution

水溶液, 甘油, 甲氧基肉桂酸乙基己酯, 环聚二甲基硅氧烷, 乙醇(酒精), 奥克立林, 山嵛醇, 双丙甘醇, 抗坏血酸葡糖苷, 氢化聚癸烯, 山嵛醇聚醚-20, 聚丙二醇-17, 二氧化钛, 二苯甲酮-3, 硬脂醇, 硅石, 双-乙基己氧苯酚甲氧苯基三嗪, 苯氧乙醇, 氢化棕榈油, 氢氧化钾, 油棕仁油, **琥珀酰聚糖**, 黄原胶, 棕榈仁油, 水杨酸, fragrance (parfum), 柠檬酸钠, 二丁基羟基甲苯(BHT), 偏磷酸钠, Dipeptide-15, 乙酸生育酚, 氢氧化铝, EDTA三钠, 柠檬酸, 香茅醇, α -异甲基紫罗兰酮, 芳樟醇, 香叶醇, 氯化镁, 丁苯基甲基丙醛, L-柠檬烯, 氯化钙, 透明质酸钠, 黄芩根提取物, 生育酚, 香橙籽提取物

active ingredients: 氨甲环酸(凝血酸) other ingredients: 可溶性胶原, 透明质酸钠, 角鲨烷, 蚕丝胶原蛋白, 水溶液, 环聚二甲基硅氧烷, 聚二甲基硅氧烷, 甲氧基肉桂酸乙基己酯, 丁二醇, 乙醇(酒精), 聚二甲基硅氧烷, 甘油, 水合硅石, PEG/PPG-14/7二甲基醚, 双-乙基己氧苯酚甲氧苯基三嗪, 硅石, PEG-60氢化蓖麻油, 聚丙二醇-7, 乙基己基三嗪酮, 异硬脂酸, 丙烯酸钠/丙烯酰二甲基牛磺酸钠共聚物, 山梨坦倍半异硬脂酸酯, **琥珀酰聚糖**, 海藻糖, PEG/PPG-17/4二甲基醚, 柠檬酸, 六偏磷酸钠, 二丁基羟基甲苯(BHT), 乙二胺四乙酸二钠, 植物甾醇/辛基十二醇月桂酰谷氨酸酯, 柠檬酸钠, 氯化镁, 氯化钙, 抗坏血酸磷酸酯镁, 乙酸生育酚, 羟脯氨酸, Lysine HCl, 阿尔泰柴胡根提取物, fragrance, CI 77947, 云母, 二氧化钛, 云母, 氧化铁

active ingredient: 氨甲环酸(凝血酸) other ingredients: 肌醇, Coix Lacryma-jobi Seed Extract, 金缕梅提取物, 可溶性胶原, 橄榄叶提取物, 蒙古蒿叶提取物, 水溶液, 环聚二甲基硅氧烷, 甲氧基肉桂酸乙基己酯, 丁二醇, 聚二甲基硅氧烷, 乙醇(酒精), 甘油, 双-乙基己氧苯酚甲氧苯基三嗪, 水合硅石, PEG-60氢化蓖麻油, 双丙甘醇, 聚丙二醇-7, HDI/三羟甲基己基内酯交联聚合物, 异硬脂酸, α -烯炔低聚物, 植物甾醇澳洲坚果油酸酯, 丙烯酸钠/丙烯酰二甲基牛磺酸钠共聚物, 山梨坦倍半异硬脂酸酯, **琥珀酰聚糖**, PEG/PPG-17/4二甲基醚, 柠檬酸, 六偏磷酸钠, 乙基抗坏血酸, 二丁基羟基甲苯(BHT), 乙二胺四乙酸二钠, 硅石, 生育酚, 植物甾醇/辛基十二醇月桂酰谷氨酸酯, 柠檬酸钠, 迷迭香精油, 焦亚硫酸钠, 乙酰化透明质酸钠, Lysine HCl, 洋委陵菜根提取物, 酵母提取物, L-精氨酸盐酸盐, 聚季铵盐-51, 刺梨果提取物, 苯氧乙醇, fragrance



Rheozan[®] SH

INCI: Succinoglycan Gum 琥珀酰聚糖



100% Natural: Validated by Ecocert

Wide pH range compatibility

Excellent tolerance to salts/electrolytes and acidic actives

Excellent performance at low pH

Smooth, velvety after-feel

Globally approved for use in cosmetics & personal care

Recommended Usage Level: 0.2-1%



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Jaguar® HP

Natural-Based Rheology Polymer

天然来源的流变改良聚合物

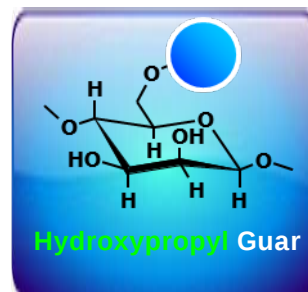
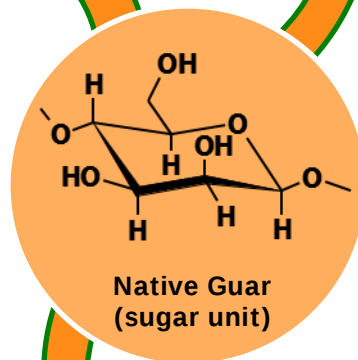
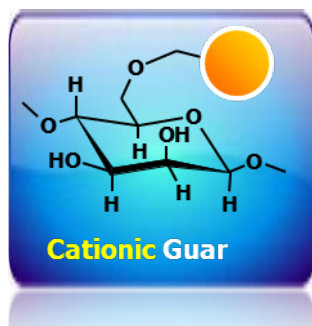


From Guar Beans 以瓜儿豆始

Chemical
Substitution

HAIR & SKIN CONDITIONING 护发护肤

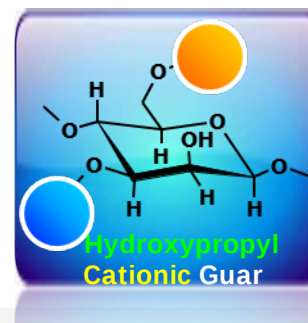
Easier detangling, easier
combing, smoother hair
& skin feel, mildness
improvement 不打结、
易梳理、光滑发感和肤感、
温和不刺激



TEXTURE 质地
Rheology / Thickening of
hydroalcoholic formulations.
Styling applications
流变改良、水醇配方增粘、定型

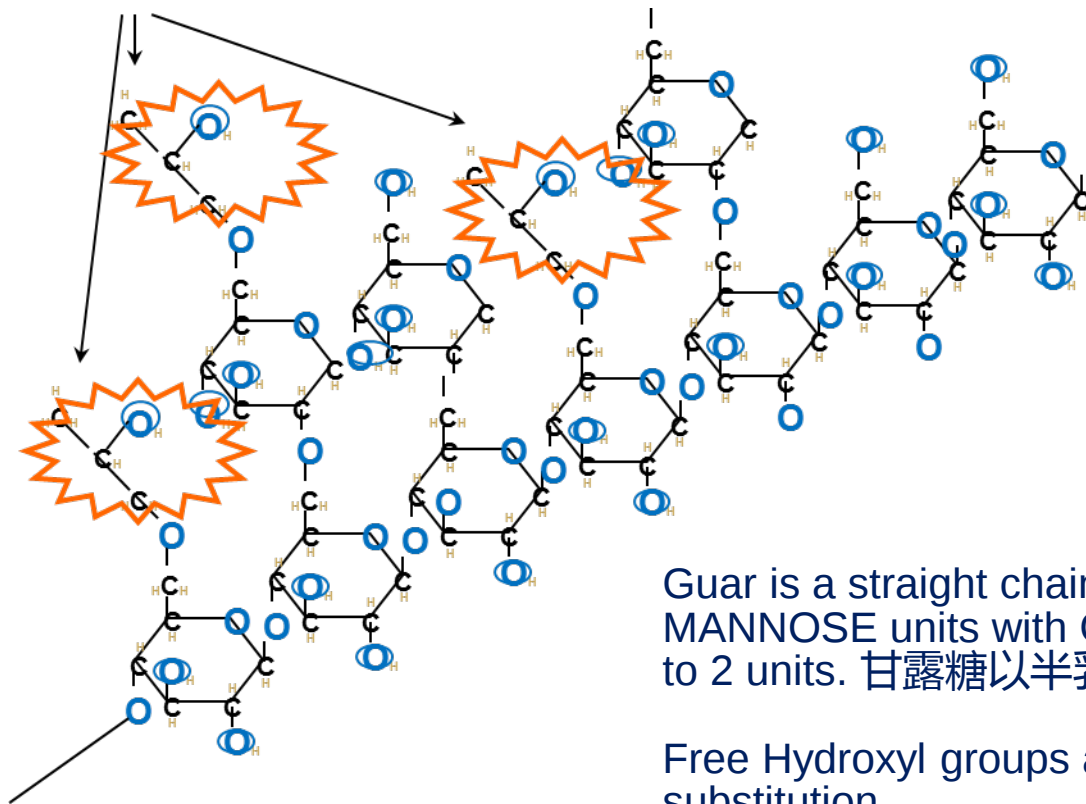
HAIR & SKIN CONDITIONING 护发护肤

Improved skin feel benefits.
Improved treatment of chemically
damaged hair 改善肤感、改善受伤发质



Jaguar® HP

Hydroxypropyl Modification 羟丙基改性



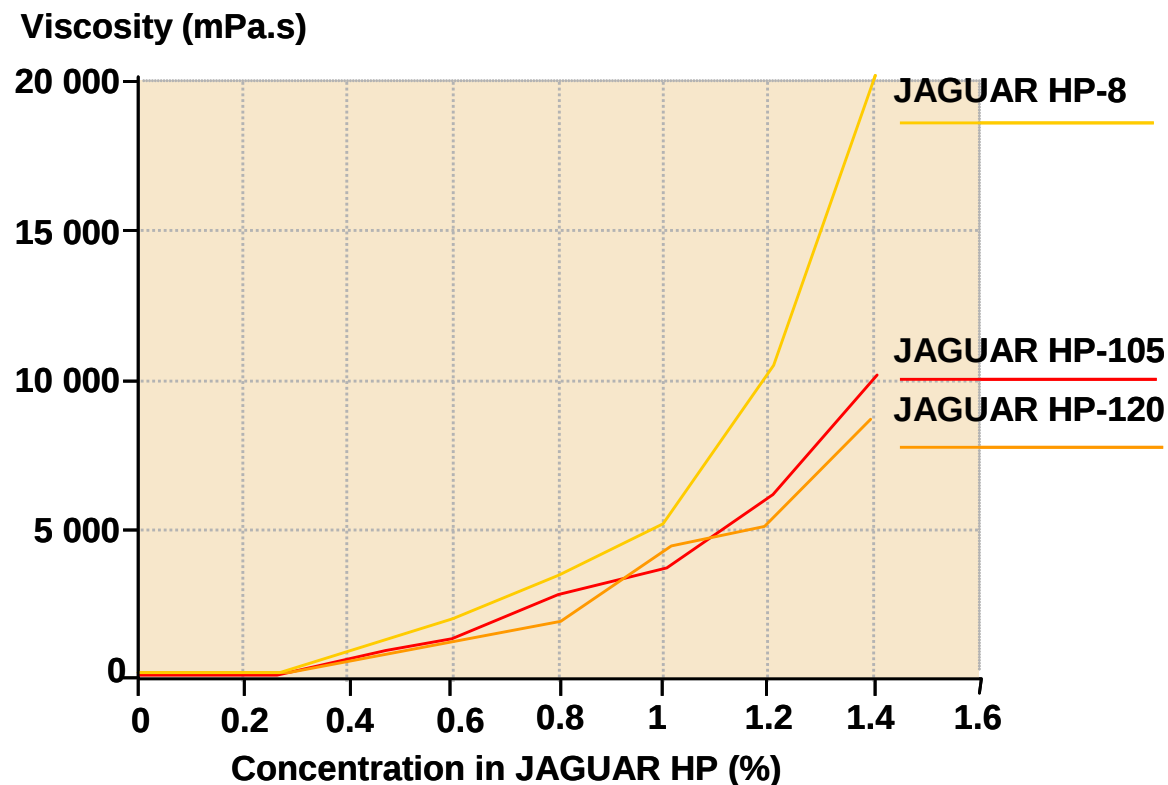
Guar is a straight chain of approximately 10,000 MANNOSE units with GALACTOSE branches every 1.5 to 2 units. 甘露糖以半乳糖联接

Free Hydroxyl groups are available for Hydroxypropyl substitution.

Hydroxypropylation improves: 改性改善

- Solubility in water 水中的溶解性
- Compatibility with polar solvents 和极性溶剂的相容性
- Swellability 溶胀性

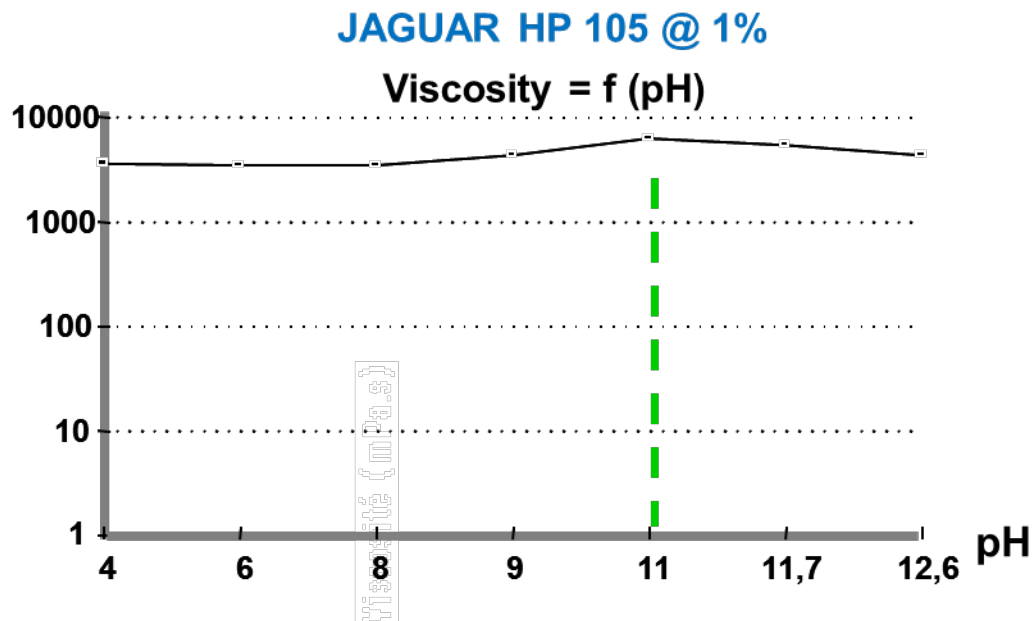
Jaguar® Rheological Properties 流变特性



In general, Jaguar HP hydroxypropyl guar has:

- Shear-thinning properties 剪切变稀
- Low Yield Value (does not suspend very well) 低悬浮性

Stability and Compatibility 稳定性和相容性



pH stability pH稳定性

Viscosity is stable over a broad pH range, i.e. 4 – 11
推荐pH范围4-11
(Depolimerization may occur at pH > 11 pH11以上可能发生解聚合)

Stability in the presence of electrolytes 电解质中的稳定性

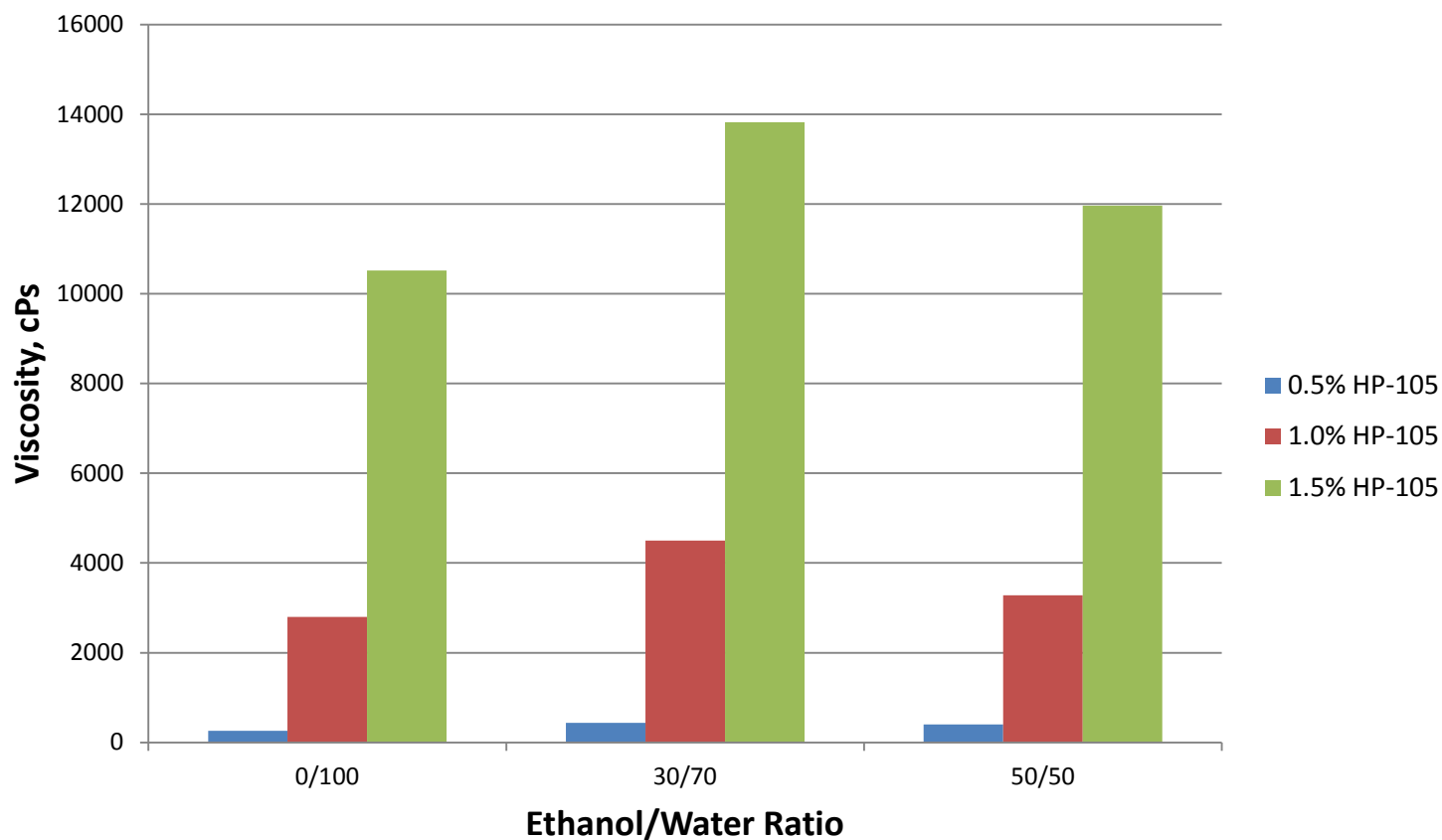
In aqueous solution:

- solution 1% **Jaguar HP8** + 10% de NaCl : same viscosity (~ 4800 cps)
- solution 1% **Jaguar HP105** + 10% NaCl : increase of viscosity (~ 20%)

In surfactant base formulation, HP Guar are salt sensitive: maximum salt tolerance of 2% 在表活体系中，可耐受2%的盐。

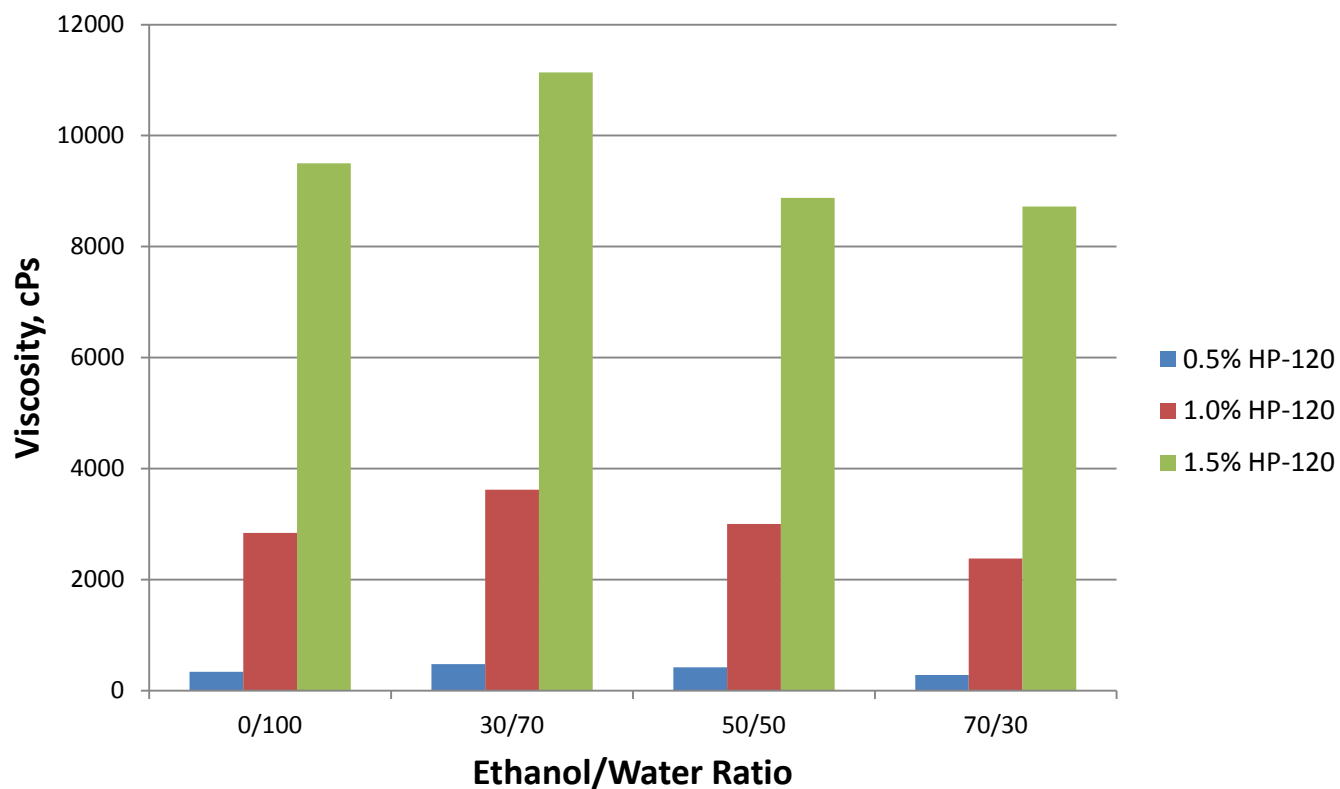
Stability and Compatibility 稳定性和相容性

Jaguar HP 105 in Ethanol/Water 水醇溶液



Stability and Compatibility

Jaguar HP 120 in Ethanol/Water 水醇溶液



Oil-Free Sunscreen Gel 无油防晒凝胶 SC-17-097

Crystal clear sunscreen gel with smooth & non-greasy after-feel.

	Ingredients (INCI)	Function	%
A	Deionized Water	-	QS
	Propylene Glycol	Humectant	3.0
	Jaguar® HP-105⁽¹⁾ (Hydroxypropyl Guar)	Thickener	1.2
B	Neo Heliopan Hydro ⁽²⁾ (Phenylbenzimidazole Sulfonic Acid), 30% solution	UVB Filter	10.0
	Neo Heliopan AP ⁽²⁾ (Disodium Phenyl Dibenzimidazole Tetrasulfonate), 10% solution	UVA Filter	10.0
C	Symocide PS ⁽²⁾ (Phenoxyethanol, Decylene Glycol, 1,2-Hexanediol)	Preservative	q.s.

- Transparent 透明
- Alcohol-free 无酒精
- Invisible finish 无残留感
- Smooth, but no oily residue 丝滑无油腻感



Hand Sanitizer Gel 免洗洗手凝胶 SH-16-012

	Ingredients (INCI NAME)	Function	W/W%
A	Deionized Water	Solvent	QS to 100
	Jaguar HP-120 (Hydroxypropyl Guar)	Thickener	1.2
B	Ethanol	Antiseptic	75
C	Citric acid (50% water solution)	pH Adjuster	QS

- Transparent hand sanitizer gel with no residual tacky after-feel.
透明、无黏腻残留感
- Comparing with market general hand sanitizer containing Carbomer as thickener, the formula containing Jaguar HP-120 gives no residual sticky after-feel. Additionally, Jaguar HP-120 is compatible with higher levels of ethanol.

Typical Market Products 市场代表产品



My Scheming Horse Oil Nourishing Mask

My Scheming Black Mask Series Brightening Black Lifting Mask

My Scheming Gudetama LazyBone Nourishing Mask

水溶液, 1,3-丙二醇, 甘油, 甲基葡萄糖醇聚醚-20, 糖鞘脂类, 磷脂, 胆固醇, Equi Lipida, 聚二甲基硅氧烷, Butyrospermum Parkii Butter Extract, 乙酸生育酚, 霍霍巴蜡PEG-120酯类, 甘草酸二钾, 泛醇, 羟乙基脲, 透明质酸钠, 水解透明质酸, 欧前胡叶提取物, 高山火绒草提取物, 苯甲酸钠, 乙二胺四乙酸二钠, 甘油聚丙烯酸酯, 黄原胶, **羟丙基瓜儿胶**, 氯苯甘醚, 碘丙炔醇丁基氨基甲酸酯, 苯氧乙醇, PEG-40氢化蓖麻油, fragrance

水溶液, 乙二胺四乙酸二钠, 甘草酸二钾, 烟酰胺, 山梨醇, 甘油, 氯苯甘醚, 苯氧乙醇, 碘丙炔醇丁基氨基甲酸酯, 透明质酸钠, **羟丙基瓜儿胶**, 丁二醇, lactobacillus/punica, 氨甲环酸(凝血酸), 欧锦葵提取物, 羽衣草提取物, 香蜂花叶提取物, 辣薄荷叶提取物, 药用婆婆纳提取物, 欧蓍草提取物, 黄花九轮草提取物, PEG-40氢化蓖麻油, fragrance

水溶液, 蜗牛分泌物滤液, 甘草酸二钾, 乙二胺四乙酸二钠, **羟丙基瓜儿胶**, 霍霍巴蜡PEG-120酯类, 黄原胶, 氯苯甘醚, 苯氧乙醇, 碘丙炔醇丁基氨基甲酸酯, 透明质酸钠, 羟乙基脲, 甘油, PEG-40氢化蓖麻油, 1,3-丙二醇, PCA钠, 柑果皮提取物, fragrance

Thank You



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A close-up photograph showing a hand squeezing a pink tube, dispensing a thick, white, stringy substance (likely a rheological solution) into the palm of another hand. The background is a soft, out-of-focus light color.

Rheological Solutions
with Sensory Appeal