

China
compliant

Promois SIG series

—— Get the “Heat power” on your hair ——

Heat Active



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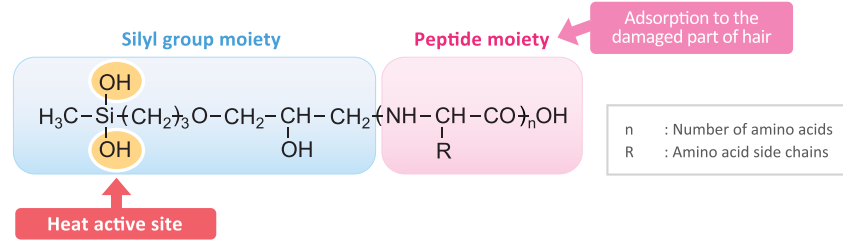
Promois SIG series; Heat active ingredient

Promois SIG series is a derivative bonded with a silyl group at the N-terminal of the hydrolyzed protein (peptide). It is a **"Heat active ingredient"**, having thermal reactive unique feature, that is different from other peptide derivatives.

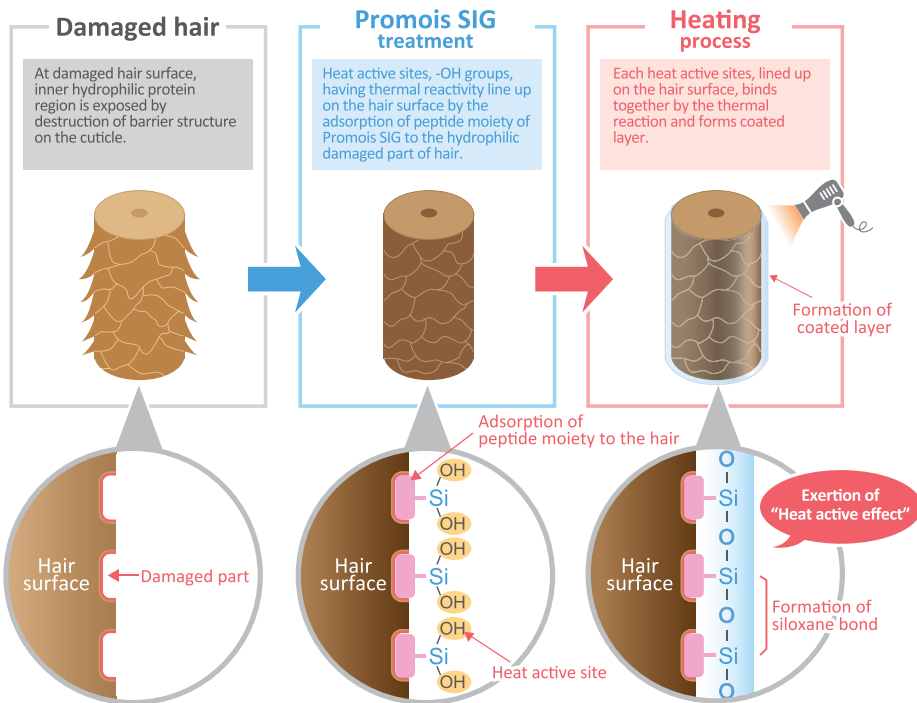
Coated layer on the hair surface is formed by the Promois SIG-treatment and heating processes using hair-dryer or hair-iron.

"Heat active effect", protecting hair from damages caused by heat and improving the hair strength and texture, is exerted by the layer.

[Illustrated structure of Promois SIG]



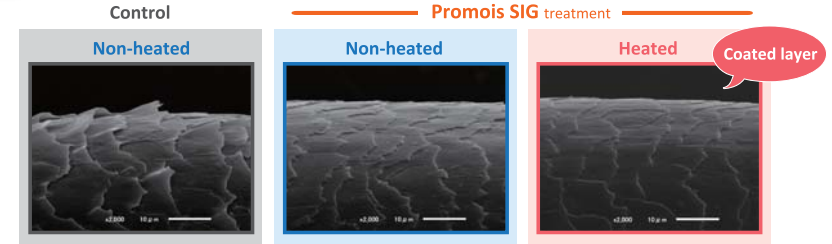
Mechanism of "Heat active effect"



Verification test

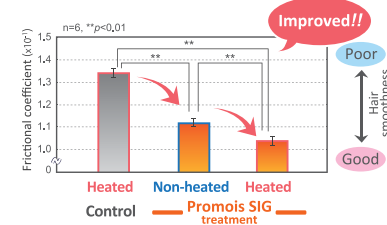
Verification tests about **"Heat active effect"** of Promois SIG series were conducted.

TEST 1 Formation of coated layer on the hair surface



[Evaluation method] Damaged hairs treated by Promois SIG were used in this test. Hair surface of test hairs with heating process by hair dryer (65 deg C, 5 min) or without heating process were observed by scanning electron microscope (x 2,000). Control; Damaged hair treated with ion-exchanged water.

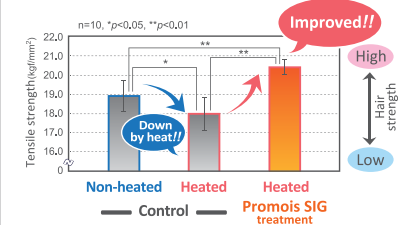
TEST 2 Improvement of smoothness



[Evaluation method] Damaged hairs treated by Promois SIG were used in this test. Smoothness of test hairs with heating process by hair dryer (65 deg C, 5 min) or without heating process were evaluated by friction tester. Control; Damaged hair treated with ion-exchanged water.

*Please contact us for details about these tests.

TEST 3 Improvement of hair strength



[Evaluation method] Damaged hairs treated by Promois SIG were used in this test. Hair strength of test hairs with heating process by hair iron (180 deg C, 10 sec) or without heating process were evaluated by hair rheology analyzer. Control; Damaged hair treated with ion-exchanged water.

Product line-up

| Product name | Origin | Feature | INCI name | IECIC 2015 ^{*1} |
|---|-------------------|---|---|--------------------------|
| Promois W-52SIG | Collagen (animal) | Giving flexibility to the hair ► For stiff hair | Hydrolyzed Collagen PG-propyl Methylsilylanediol, Water | Listed |
| Promois WU-32SIG | Collagen (fish) | | | |
| Promois W-52USIG | | | | |
| Promois WK-HSIG ^{*2} Promois WK-HSIGF | Keratin | Excellent damage-repairing effect ► For professional | Hydrolyzed Keratin PG-propyl Methylsilylanediol, Water | Listed |
| Promois S-700SIG ^{*2} Promois S-700SIGF | Silk | Giving smooth and silky texture ► For all type hair | Hydrolyzed Silk PG-propyl Methylsilylanediol, Water | Listed |
| Promois WG-SIG | Wheat | Forming fine film on the hair ► For fine hair | Hydrolyzed Wheat Protein PG-propyl Methylsilylanediol, Water | Listed |
| Promois WS-HSIG | Soy | Excellent moisturizing effect ► For dry hair | Hydrolyzed Soy Protein PG-propyl Methylsilylanediol, Water | Listed |
| Promois GOMA-SIG | Sesame | Giving light-touch texture ► For normal hair | Hydrolyzed Sesame Protein PG-propyl Methylsilylanediol, Water | Listed |

*1 IECIC 2015 refers to "已使用化妆品原料名称目录 (The Inventory of Existing Cosmetic Ingredients in China)" issued by CFDA on December 23, 2015.

*2 Promois WK-HSIG/WK-HSIGF and Promois S-700SIG/S-700SIGF contain the same active components but different additives.
Promois WK-HSIG, Promois S-700SIG : Butylene Glycol, Methylparaben
Promois WK-HSIGF, Promois S-700SIGF : Propylparaben/ Phenoxyethanol, Butylene Glycol