













Starfill

Exquisite Technology

The



Raw Material

The safety is enhanced using only high-purity raw ingredients manufactured strictly by the StarFill exclusive line. (ophthalmic pharmaceutical grade)



HA Concentration

StarFill uses a syringe filled with HA 24mg/ml , cross-linked mesomolecule to pursue the ideal maintenance period and the safety of the body, including swelling prevention.



Viscoelasticit

Elastic HIVE structure give elastic lifting maintains an ideal viscoelasticity



Aseptic Environment

The Yongin plant, which was newly expanded in 2015, produces clean, pure, sterile products that have beer thoroughly sterilized and removed infectious bacteria.

StarFill keeps endotoxin below 0.1 EU/ml minimizing various side effects that may occur after the procedure.



Residual BDDE

StarFill applies for a more precise cleaning process to eliminate residual BDDE to undetection level



Endotoxin

StarFill produces a uniform particle size through its own Downing Process. Exquisite molding is completed with homogenized particle implementation technology.

StarFill is manufactured to be based on the same pH as my body and with osmotic pressure of about 300 mOsmol/kg, which reduces the pain and discomfort of the patient after the procedure.



Extrusion Force

starfill manufactures and manages the optimized injection force for both doctor and patient's comfort.



Particle Homogenization



pH, osmolality

Essential





Exquisite Molding

Minimized BDDE Input

Mod(Degree of Modification)³⁾ is a safety verification reqeuirement.'

'MoD = full cross-linked BDDE + Pendant type BDDE' by checking the modification ratio of HA through measurement of total amount of BDDE present in HA Gel.

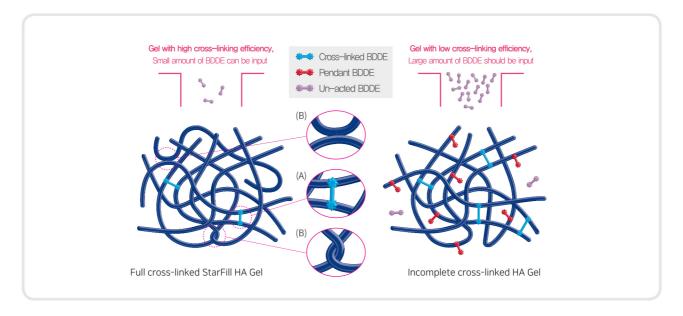
MoD of StarFill is 1/6 lower than compare with other mono type filler, making it safer.

Ref. Data from Laboratory, 2018-2019

Mana phasis Filler	StarFill Lidocaine			А	В
Mono-phasic Filler	Plus	Deep Plus	Implant Plus	J-V	N-V
MoD(%) ³	1.18	1.53	1.89	7.68	11.23
Complex viscosity (Pa·s, 0.1 Hz) ¹	82.9	304.2	478.3	457.9	448.7
Cohesiveness ² (N)	0.4184	0.6102	0.8776	0.0443	0.8003

Maximization of Cross-linking Efficiency

StarFill through the "2-crosslinking method" that improved B) physical and A) chemical cross-link process to achieve a complete cross-linking level while minimizing the amount of BDDE as a chemical catalyst material, thereby manufacturing a gel with high viscoelastic properties.



High Viscoelasticity and Cohesiveness

Compare result of StarFill Implant Plus and representative filler products, StarFill's complex viscosity³⁾ and cohesiveness²⁾ are equivalent with foreign A products which has more BDDE input and more outstanding compare with domestic B products, can make best clinical results.



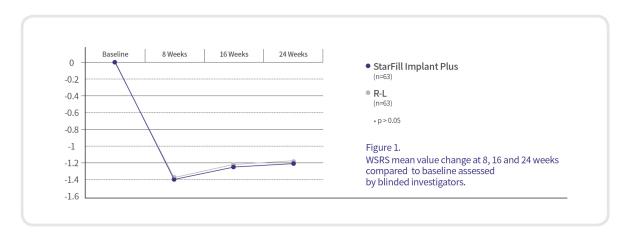
Clinical Results

Safe HA filler StarFill increases the satisfaction of the operator and patient.

Efficacy Assessment

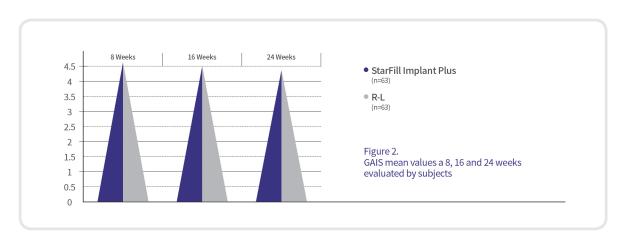
From the WSRS(Wrinkle Severity Rating Scale) results evaluated by independent expert panels and blinded investigators, we were able to see the wrinkle improvement of the group.

This result came from compare data between Starfill and representative filler in the market.



Participant Self-Satisfaction Assessment

Although there was no statistically significant difference in evaluating the satisfaction of the treatment with the tester and the subject's GAIS(Global Aesthetic Improvement Scale), in general, the satisfaction level of the test group was similar or slightly higher than that of the control group.



Safety Assessment

No major abnormalities were reported, and slight abnormal responses from medical devices, such as slight swelling and pain for 2-3 days, were all recovered without any special treatment.

There were no signs of abnormal vital signs, physical examinations, or blood tests.

StarFill has been reported to be a safe medical device due to its proven safety in the body.

OStarfill

Part of Procedure





Product Information

No	Plus	Deep Plus	Implant Plus
	Lidocaine	Lidocaine	Lidocaine
Composition	HA 24mg/ml	HA 24mg/ml	HA 24mg/ml
	Lidocaine 0.3%	Lidocaine 0.3%	Lidocaine 0.3%
Depth of	Superficial/Mid	Mid / Deep	Subcutaneous/
Injection	dermis	dermis	Supraperiostal areas
Syringes	1.1ml	1.1ml	1.1ml
Needle	27G	27G	27G



[Product name] Graft/prosthesis, biomaterial <B04230.01 (4)>

[Product Authorization Number] 17-594

[Storage] 2°C~25°C (Do not freeze)

[Indication] Temporary improvement of face wrinkles

[Single Use / Sterile medical devices / Do not reuse] For more details, please refer to the instruction for use.

