









Dermalax[™]&THE CHAEUM[®] reshapes your face, youth and life!





Supreme & Pure monophasic crosslinked HA soft tissue filler

manufactured by a state-of-the-art technology of Hugel; its stabilized and even HA structure is achieved through long crosslinking time at low temperature.

Customizable viscoelasticity & HA concentration of Dermalax™& THE CHAEUM® provide various treatments and indications giving optimum results and maximizing satisfaction.







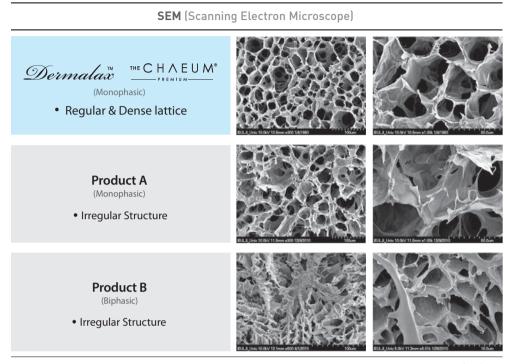


Dermalax™	Plus	Deep Plus	Implant Plus		
HA Concentration	20 mg/mL	24 mg/mL	24 mg/mL		
G' Value	80 ± 15 Pa	160 ± 15 Pa	280 ± 15 Pa		
Lidocaine	Lidocaine 0.3%				
Injection Depth	Superficial dermis	Mid, deep dermis	Subcutaneous layer		
Storage	Storage between 2-25°C, and protect from direct sunlight and freezing				
Shelf Life	24 months				
Approval Status	CE Certified				

THE CHAEUM®	Premium No.1	Premium No.2	Premium No.3	Premium No.4	
Crosslinking Rates			●●●◇	0000	
Gel Type					
HA Concentration	24 mg/mL	20 mg/mL	20 mg/mL	20 mg/mL	
G' Value	80 ± 15 Pa	180 ± 15 Pa	300 ± 15 Pa	400 ± 15 Pa	
Lidocaine	Lidocaine 0.3%				
Injection Depth	Superficial, Mid dermis		Mid, deep dermis	Subcutaneous layer	
Storage	Storage between 2-25°C, and protect from direct sunlight and freezing				
Shelf Life	24 months				

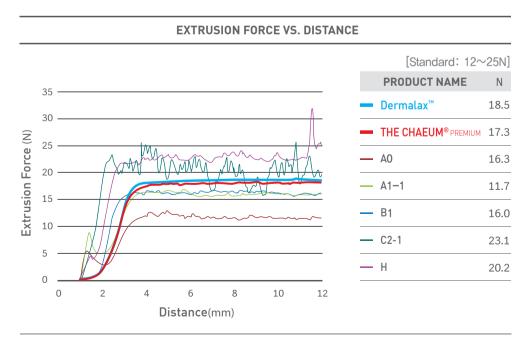
EVEN CROSSLINKING

Even crosslinking technology offers the regular and dense lattice



Ref) In-house

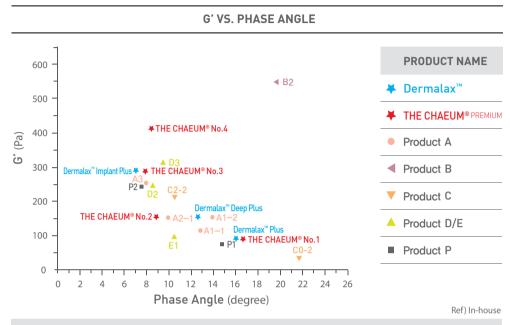
Constant extrusion force allows smooth injection



Ref) In-house

HIGH ELASTICITY

Superior elasticity due to low phase angle results in faster elastic recovery rate



*Phase angle: G' (elasticity) and G'' (viscosity) are determined by the phase angle. The phase angle of perfect elastic body is 0° , indicating the maximum G', whereas that of perfect fluid is 90° , indicating the maximum G'.

By lowering the phase angle, Dermalax™ and THE CHAEUM® Premium shows the higher elasticity than other products.

Maintaining the shape with the stable formation *invivo* indicates the importance of the phase angle

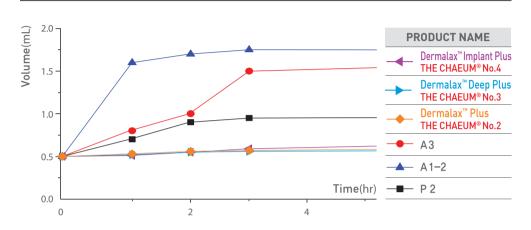
Product A (Phase angle 7.8) Product B (Phase angle 11.3)

Ref) Safety & Efficacy evaluation of HA (Hyaluronic Acid) Dermal filler (*invivo*), Chung-Ang University Hospital, 2014

100% CROSSLINKED HA

100% crosslinked HA without non-crosslinked HA as lubricant minimizes the initial swelling

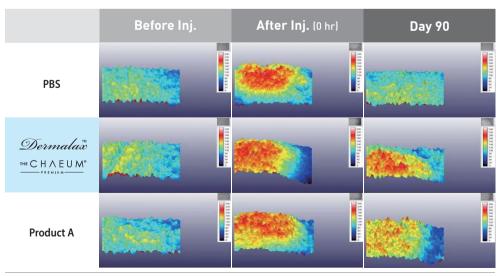
Water Swelling Test



hr	Dermalax™ Implant Plus THE CHAEUM® No.4	Dermalax™ Deep Plus THE CHAEUM® No.3	Dermalax [™] Plus THE CHAEUM® No.2	А3	A1-2	P2
0	0.5	0.5	0.5	0.5	0.5	0.5
1	0.51	0.52	0.53	0.8	1.6	0.7
2	0.55	0.55	0.56	1	1.7	0.9
3	0.59	0.58	0.59	1.5	1.75	0.95

Ref) In-house

Duration test in vivo



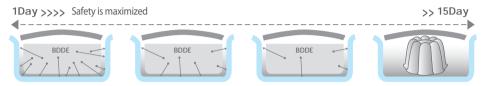
Ref) Safety & Efficacy evaluation of HA (Hyaluronic Acid) Dermal filler (*invivo*), Chung-Ang University Hospital, 2014

ADVANCED SAFETY

Inflammation and allergic reaction are minimized through the strict control of endotoxin, BDDE residue, and protein load

Dialysis

14~15 days of dialysis to minimize BDDE residue



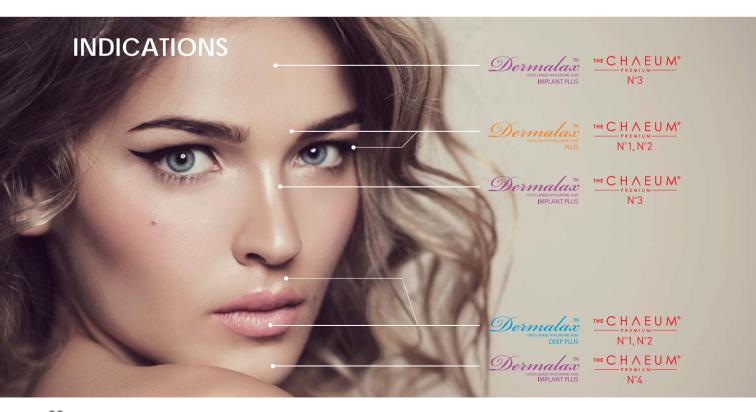
Spontaneous movement of BDDE from an area of high concentration to low concentration minimizing BDDE residue

Safety Data

	Dermalax™ &THE CHAEUM® PREMIUM	Product A	Product B	Product C
Endotoxin (EU/mL)	⟨0,03	0.5	0.5	0,2
BDDE (ppm)	⟨0.5	⟨2	0.5	⟨2
Protein Load (ppm)	⟨0,05	N/A	⟨0,06	0.05

Ref) In-house

- **Endotoxin** \bullet = **Inflammation** \bullet (redness, edema, pain, fever)
- Protein load ♥, BDDE ♥ = Allergic reaction ♥



CLINICAL RESULTS

In a pivotal clinical study conducted for 48 weeks (pre-protocol group n=60), the safety and efficacy of Dermalax™ &THE CHAEUM® were compared with that of the reference device which was approved for its claim of 18 month-duration by US FDA

24 weeks

- 91% of subjects showed the wrinkle improvement at 24 weeks

48 weeks

- -83% of subjects showed the wrinkle improvement after 1 year
- Subjects who showed 2-level or higher improvement:

 Dermalax™ &THE CHAEUM® 64% vs. Reference device 54%



CONCLUSION

- The safety profile of Dermalax™&THE CHAEUM® and the reference device was comparable.
- The clinical trial verified that Dermalax™ &THE CHAEUM® is an effective and safe medical device for the wrinkle improvement.

Ref) A Randomized, Multi-center, Patient & Evaluator-blind, Matched pairs, Active-controlled design Clinical Study to Evaluate the Efficacy and Safety of Injection with Dermalax (Deep) as Compared to Restylane® in correction of Nasolabial fold, Chung-Ang University Hospital, Eulji General Hospital, 2014

Design Your Beauty!









