## сгота

# saypha® VOLUME PLUS

saypha® VOLUME PLUS <sup>1</sup>	
Indication	for facial tissue augmentation in order to correct midface volume deficit, for restoring facial volume and shaping the contours of the face and for reconstructive purposes in the treatment, for instance, of HIV-drug related facial lipoatrophy.
Injection area	deep dermis, subcutaneous or supraperiosteal
Ingredients	
Concentration HA	2.5% (25mg/mL) high molecular weight hyaluronic acid of non-animal origin
Crosslinking agent	BDDE (concentration ≤ 2 ppm)
Additional ingredients	phosphate buffer, NaCl, 0.3% lidocaine hydrochloride
Packaging	
Packaging unit	1 box of 1mL syringe
Needle	2×27G ½" thin wall Terumo™ needles (CE 0197)
Duration	
Est. duration in the skin	up to 12 months <sup>2</sup>

#### Crosslinking

The product is a biphasic gel containing a crosslinked and a non-crosslinked phase mixed in a defined ratio (crosslinked phase 95%, non-crosslinked phase 5%). These specifications are not to be confused with the crosslinking degree of the products, since a crosslinked phase contains non-crosslinked HA as well.

#### Rheology

Purpose of rheological measurements is to evaluate the physical characteristics of HA fillers. The storage modulus G' represents a suitable parameter to determine the stiffness of HA-based, crosslinked products like saypha® VOLUME, where the elasticity is more pronounced than the viscosity.

 Test method
 G' (ω =1s<sup>-1</sup>, f=0.16 Hz, T=25°C)

 Result
 500,600 mPa<sup>3</sup>

#### Extrusion force

Extrusion force measurements are conducted to determine the force [N] needed to eject the gel from the syringe. The tests are always performed with the enclosed needle. A low and constant extrusion force is beneficial for smooth and predictable results.

Needle27G ½" thin wall Terumo™ (CE 0197)Result15 N4

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### Microbiological parameters

#### Endotoxins

Endotoxins are components of gram-negative bacteria membranes and are released when the bacterial cells are disrupted (e.g. during sterilization). Therefore, the products are tested to assure that the endotoxin concentration lies below the predefined specification limits.

Test method according to Ph.Eur.⁵

Result virtually free on endotoxins<sup>6</sup>

#### Sterility

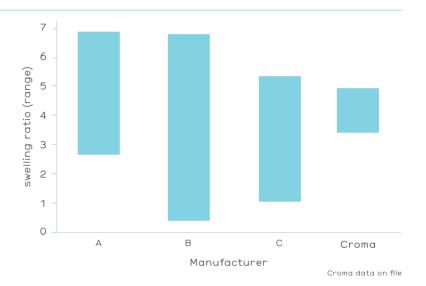
Croma HA fillers are steam sterilized within the syringe.

## Swelling ratio

Water uptake influences the volumising effect of HA fillers. Therefore, the in vitro swelling behaviour is a useful parameter. Croma HA fillers show a reproducible swelling in vitro within the entire product range (compared to the competitor product ranges A, B, C in the table). Furthermore, Croma HA fillers have a very low batch to batch variability, which contributes to the predictability of the results.

gravimetric measurement to determine the ability of a gel to take-up PBS

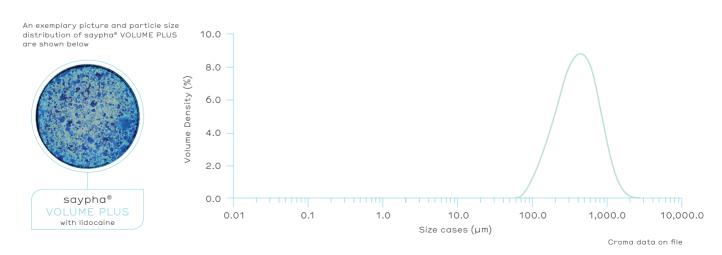
(phosphate buffered saline)



#### Gel particles

Croma's crosslinked hyaluronic acid fillers are characterized by smooth HA gel-particles with a typical diameter around 0.5mm. Particle staining is useful to illustrate the structure of HA fillers: a homogeneous composition of smooth gel particles made of crosslinked hyaluronic acid.





<sup>1</sup>CE0120 <sup>2</sup>Data on file Clinical Evaluation Report C\_CT\_CER\_007; while duration of effect of saypha® VOLUME PLUS is not known at the moment, based on clinical experience with other devices from the saypha® family, it is reasonable to assume that it will persist for at least 9-12 months. <sup>3</sup>Batch: 205002, specification limits: 245,000-650,000 mPa, <sup>4</sup>Batch: 205003, specification limits: 10-25 N <sup>9</sup>Ph.Eur. = European Pharmacopoeia, <sup>6</sup>EU = Endotoxin Unit according to Ph.Eur., specification limits: <5 EU/mL

The medical practitioner confirms having informed the patient of a likely risk associated with the use of the medical device in line with its intended use. For risks and adverse events associated with the use of the product consult the instructions of use.