



Aqium® 3D

perfected the Impression!

HYDROPHILICITY

SCANNABILITY

TEAR STRENGTH

VISCOSITIES

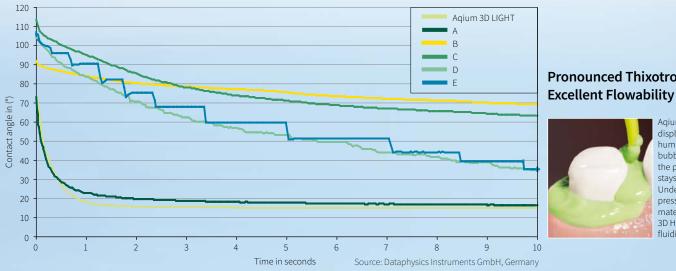
ULTIMATE ELONGATION

HOMOGENEITY



measurement of the contact angle (the lower the angle the better the hydrophilicity). A benchmark test with other leading VPS materials, done by an external institute, shows the extra ordinary performance of Agium® 3D LIGHT. Directly after application the drop loses its contour. Already after 2 sec. Aqium® 3D LIGHT achieves the lowest contact angle.

Measurement of contact angle on cured impression material (VPS-Light bodies)



Pronounced Thixotropy /



Agium® 3D LIGHT displaces existing humidity and flows bubble free onto the preparation and stays in that position. Under the dynamic pressure of the tray material, e.g. Agium^e 3D HEAVY, the perfect fluidity unfolds.





The excellent hydrophilic properties, which are rather unusual for a-silicones, must be highlighted."

Videoequenz on the homepage www.mueller-omicron.de

Senior Physicians Dr. med. dent. Jens Wehle (Dep. of Prosthodontics of the ZMK Centre, Universitätsmedizin Göttingen)

Aqium 3D TEAR STRENGTH

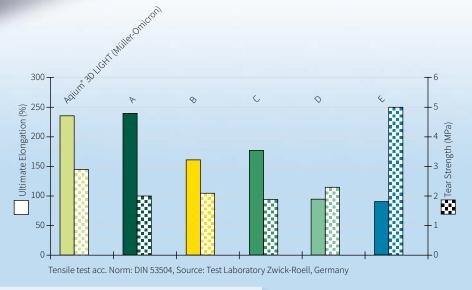
With Aqium® 3D it is succeeded to achieve a high initial hydrophilicity and simultaneous a high ultimate elongation and tear strength. Usually these important mechanic specific values will be reduced more the higher the hydrophilic property is adjusted. Lower values cause a tear of the material during the removal out of the patient's mouth and the impression must be repeated.

Aqium[®] 3D offers safety herein and takes, in this combination, a leading position in the dental market.

to take a good impression due to its high elasticity also increased comfort for the patients."

Senior Physicians Dr. med. dent. Matthias Rödiger (Dep. of Prosthodontics of the ZMK Centre, Universitätsmedizin Göttingen)

A comparison with other leading VPS-materials shows that, in spite of the best hydrophilicity, Aqium® 3D LIGHT obtains the second best single value. In the markedness of the single values and in correlation among each other Aqium® 3D LIGHT is the best performer and overall winner of the comparison.



Score-model: (single valuation: possible maximum points 10; Overall performance: addition of the realized points per single valuation)

Product	Hydrophilicity (max. 10 Points)	Ultimate Elongation (max. 10 Points)	Tear Strength (max. 10 Points)	Overall Performance (max. 30 Points)	Ranking
Aqium [®] 3D LIGHT	10	10	6	26	1.
А	10	10	3	23	2.
E	2	1	10	13	3.
В	2	6	4	12	4.
С	1	7	3	11	5.
D	3	1	4	8	6.
The named products Flexitime* Light Flow, Aquasil Ultra LV, Honigum* Light, ExpressTM Light Body, AFFINIS* light body are no products of Müller-Omicron GmbH Co. KG.					

Aqium 3D ULTIMATE ELONGATION

Aqium 3D PRACTICE

Clinical Case







Fig. 1: Preparation of abutment tooth 36 for a full-cast part crown with cord packing.

- Fig. 2: Light Body Aqium* 3D application in the distal approximal region of abutment tooth 36 (pilot cords remain in situ).
- Fig. 3: Light Body Aqium® 3D application over the entire occlusal surface of the mandible.





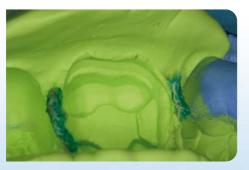
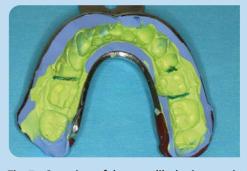


Fig. 4: Filling the impression tray with Aqium® 3D Heavy Body compound and thinner Aqium® 3D Light Body overlay.

- Fig. 5: Positioning and fixing the impression tray in the patient's mouth.
- Fig. 6: Detail of the cast of abutment 36 after using the double cord technique with the pilot-retraction cord retained in the impression.







 $\label{eq:Fig.7} \textbf{Fig. 7: Overview of the mandibular impression.}$

- Fig. 8: Detailed picture of saw cut model made.
- Fig. 9: Full cast partial crown inserted with optimum marginal seal.

COur results seem to indicate that the Aqium® 3D Light / Aqium® 3D Heavy combination can be recommended for use in addition because it is convenient to use and yields a high quality result."

Aqium 3D SCANNABILITY

66 The scanning capability was considered very good. The ability to adequately digitise impressions, made of

Aqium® 3D, using scanning methods is an additional advantage which which will become more important part of the "digital workflow"."

Senior Physicians Dr. med. dent. Matthias Rödiger (Dep. of Prosthodontics of the ZMK Centre, Universitätsmedizin Göttingen)





NEW

During the development of the Aqium® 3D the requirements of the progressive digital dentistry were taken in account. The impressions, which were taken in the conventional way with Aqium® 3D, are scannable without the addition of a powder or spray. In this way a computer-assisted production of tooth restorations, based on digital data, will be enabled, even if a scan directly in the mouth

turns out to be problematic caused through difficult situation in the mouth. It is not a mandatory to have a scanner in the dental practice. The impression is dimensionally stable and can be sent to a milling center or dental laboratory, who will carry out all further digital workflow for the production of the dental prosthesis.

compact

efficient

economical

OLD

Aqium® 3D and the New Mixing Technology achieve material savings of 28 %

The new NT-Mixer and Aqium® 3D combines quality enhancement and economy in a perfect way. The new mixing method (shear forces and extensional flow) and the perfect adjusted viscosities of Aqium® 3D create a clearly visible better homogeneous mixing result, which increase the safety at the user, as well as the quality of the impression itself. Furthermore the compact design of the new NT-mixing tips achieves automatically material savings of 28 % . This is economical, resource-saving with sustainable impact in production, application and recyclability.



Aqium 3D VISCOSITIES

The most frequently used impression techniques, the double mixing technique (1-step) and putty wash technique (2-step), demand a determined viscosity and hardness of the respective material to take a safe and precise impression.

The system Aqium® 3D meets all these requirements at best with an optimum balance between the viscosity and shore hardness of the single component among themselves and in relation to the impression technique.

With the new product type Aqium® 3D PUTTY STANDARD the system now offers more individual combinations of material and an enlargement in the field of indication.

The product range is perfectly completed by the scannable bite registration material Aqium® 3D BITE.





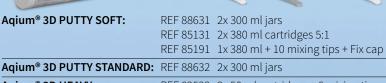
Recommendation Material Combination / Impression Technique				
Tray Material	Wash Material	Putty Wash Technique (2-step)	Double Mixing Technique (1-step)	Monophase Technique
Aqium® 3D PUTTY SOFT	Aqium® 3D LIGHT	***	**	
	Aqium [®] 3D MEDIUM	**	***	
Aqium [®] 3D PUTTY STANDARD	Aqium [®] 3D LIGHT	***	*	
	Aqium [®] 3D MEDIUM	***	*	
Aqium [®] 3D HEAVY	Aqium [®] 3D LIGHT	*	***	
	Aqium® 3D MEDIUM	*	***	
Agium® 3D MONO				***

Agium[®] 3D Product Range

Aquum 3D



Accessories:



Aqium 3D

Aqıum® 3D HEAVY:	REF 82533 2x 50 ml cartridges + 6 mixing tips REF 85133 2x 380 ml cartridges 5:1
Aqium® 3D LIGHT:	REF 82530 2x 50 ml cartridges + 12 mixing tips
	REF 000087270 2x 135 ml tubes
Aqium® 3D MEDIUM:	REF 82531 2x 50 ml cartridges + 12 mixing tips

Aqium® 3D MONO:	REF 85139 2x 380 ml cartridges 5:1
	REF 85199 1x 380 ml + 10 mixing tips + Fix cap
	REF 000087279 2x 135 ml tubes
Aqium® 3D BITE:	REF 82538 2x 50 ml cartridges + 12 mixing tips

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Agium 3D

REF 51291 Fix cap 5:1, yellow, 2 pieces

REF 51401 Mixing Tips 5:1, yellow, 40 pieces

REF 811511 Mixing Tips NT, yellow, 50 pieces

REF 811513 Mixing Tips NT, green, 50 pieces **REF 474196** Intra-Oral-Tips, yellow, 96 pieces **REF 811010** Mixing Gun NT (1:1/1:2) **REF 82005** Mixing Gun (1:1/1:2)

Agium 3D

Aqium 3D woxo

Aqium 3D

* = Highly recommended * = Recommended = less recommended