

Newsletter / Feb 2018

Dimensional accuracy of 'Alginate' using methods of 'Disinfection'...

You know when the lab send backs a job and it doesn't fit and you phone the lab to hear them say "the impression may have been distorted". What we mean is the dimensional stability of the impression may have changed as with everything we do in Dentistry is within parameters.

A study conducted in January 2018 has finally concluded if disinfecting with a spray or immersion changes dimensional accuracy of an alginate impression.

This study was conducted with an edentulous master model and was placed with reference points (A, B, C & D) for cast measurements by scoring grooves onto the occlusal surfaces in the shape of an 'X', which was recorded via digital callipers and readings taken for each linear measurement. The measurements were done between intersects of the "x" on the posts of each model. Eighteen measurements were done for each model. The mean of the three linear measurements was taken from the gypsum plaster casts and compared to those recorded from the master model.

Five special trays was made and impressions was taken in alginate under manufactures instructions in a controlled environment and disinfected with different strengths in NaOCl solutions via spray and the immersion technique.

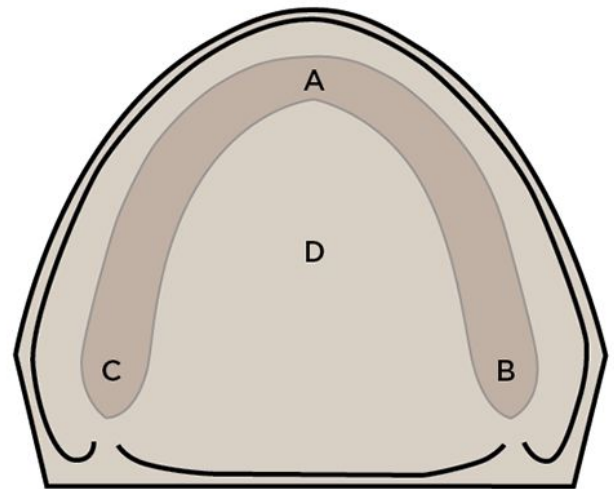
Conclusion - "Within the limitations and based on the findings of this study it can be concluded that disinfection of irreversible hydrocolloid impression material is more appropriate using NaOCl spray rather than immersion, and the spray method did not affect the dimensional stability of alginate as much as the immersion method did."

<http://www.aegisdentalnetwork.com/cced/2018/01/dimensional-accuracy-of-alginate-impressions-using-different-methods-of-disinfection-with-different-concentrations>

dental**town**uk

**Kash Talks Private Removable
Prosthetics in Dentaltown UK
Magazine.**

Go to www.bremadent.co.uk/news/category/press for more info

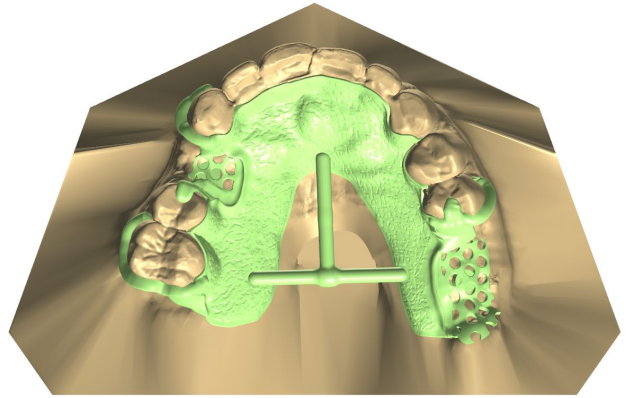
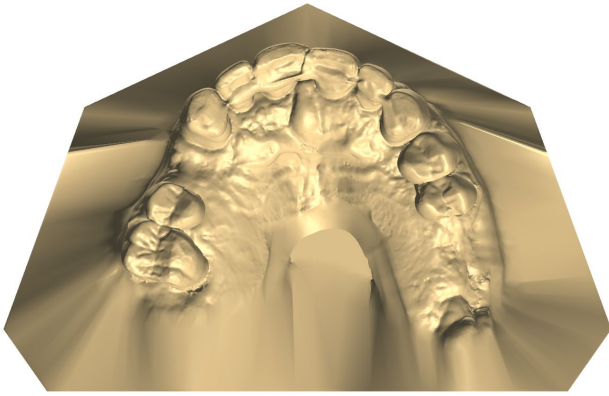


Fun Dental Fact!

One in four adults admit they don't brush twice a day, including a third of men.

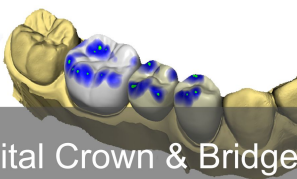


Our first '3D Printed Model' & '3D Printed Cobalt Chrome' with no physical models, all done from a Trios Scan....



Digital Dentistry in complete prosthetics is still a tested theory due to variables in soft tissues, jaw classifications and patient attributes which determines the outcome, however in removable partial prosthetics, digital dentistry can be utilised for the following products: cobalt chrome milled frameworks, 3D Printed Valplast flexible and implant prosthetics.

Bremadent 'Digital' is compatible with the following intraoral scanners: 3m, Sirona, Planscan, Trios, Itero, Carestream.



Digital Crown & Bridge



Digital Implantology



Digital Study Models



Digital Prosthetics

Contact us for further information or go to www.bremadent.co.uk/digital

Bremadent Dental Laboratory – 0208 520 8528 – www.bremadent.co.uk - office@bremadent.co.uk



'FiBER Force®' is a simple, inexpensive fibre mesh that combines strong reinforcement and 3 times more resistance to fatigue in acrylic with no added space, weight or thickness.



'FiBER Force®' is a light weight, virtually invisible, metal free mesh that chemically bonds to acrylic and has significant superior fracture resistance and naturally flexes with mastication than traditional stainless steel mesh reinforcement.

'FiBER Force®' is used as an alternative to metal strengthener reinforcement in removable/fixed implant dentures (locators, immediate / delayed loading dentures), prosthetics, denture repairs and temporary long span crown & bridges.

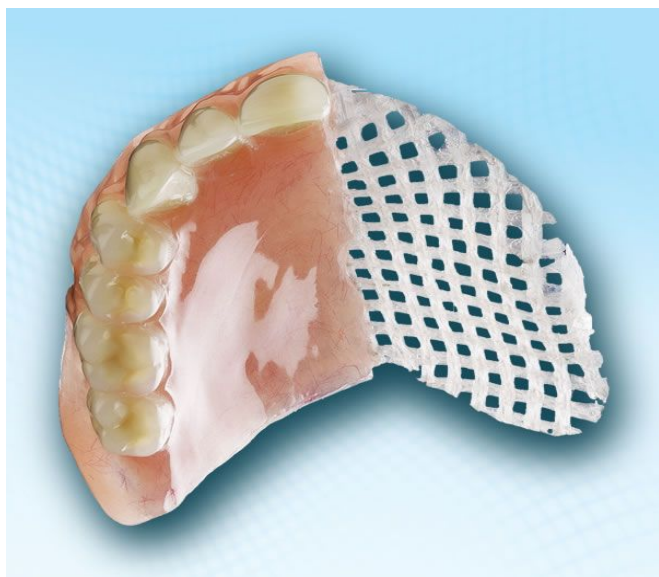
Technical Features:

Fibre reinforced composites is routinely used in a wide spread of industries due the physical properties of the 'E-Glass' tensile strength of 2000mpa and modulus of elasticity, which is ideal for the stress caused by repetitive masticatory forces that places a long term strain on the prosthetic. All 'FiBER Force®' products are treated with 'Silane' for high bond strength.



Implant Dentures:

'FiBER Force®' is used from the principles of two engineering principles and concepts, one is CST (Cable styled technology) that is used in long span bridges across the world and are built with cables extended from a central support pillars to support the bridge deck. The second is reinforced concrete design, which implies the concept of following concrete around a specifically design grid or structure. With the technical/ physical properties and leverage concepts of Fibre Force, it's ideal to create a framework for removable/fixed implant supported dentures (locators, all on 4, immediate / delayed loading dentures).



Clinical Features:

'FiBER Force®' is metal free, non toxic and non corrosive and is used in situations when the OVD is limited, patients with strong bites and complete dentures opposing natural dentition. Due to it's fracture resistance of 271.6mpa it is also used in removable implant dentures including immediate / delayed loading dentures. Fibre reinforced composites have three main benefits, high fracture and fatigue resistance coupled with their light weight .

Ask Kash today for more info 0208 520 8528

“The world is facing a new networked, digital lifestyle” and we will ensure that Bremadent remains ahead of the 'Digital Dentistry' game. The aim of 'New Digital Technology' is to provide faster, accurate and consistent results with less variables in 'Everyday Practice' for an 'Integrated Digital Workflow'.

Our new '**Bremadent Digital**' service has the latest 'Digital Equipment' to accommodate 'Digital Dentistry' services from 'Digital Dental Models' to 'Implantology' which are scanned directly from analogue (plaster) models or digitally sent to us from the leading intra-oral scanners from any Dentist around the world instantly (3m, Sirona, Planscan, Trios, Itero, Carestream).

All cases are 'Scanned' and 'Designed' in 3D, which gives accurate and clearly defined parameters with the prepared tooth, margins, contact areas and occlusion captured precisely and locked for the 'Design'. Our technicians will then be able to customise any areas of concern within the parameters and design the restoration with 'Natural Anatomy' from the locked parameters.

A wide range of products is available in 'Crown & Bridge', 'Implantology', 'Prosthetics' and 'Orthodontics' with many restorations being 'CAD/CAM Milled' or '3D printed' once the case has been scanned, designed and approved.

Bremadent 'Digital' is connected directly with Implant systems from Dentsply, Strauman, ETK, Biomet 3, Nobel Biocare, CAMLOG, DIO, Zimmer, Avinent and Atlantis with over 70 implant libraries that allows the Dentist, Dental Laboratory and Implant System to communicate accurately with less variables.

Accuracy of 'Scan':

With our new 'Digital Scanner' we can scan directly from 'Working Models', 'Analogue Implant Impressions', 'Single or Triple Trays' with one scan without the need to introduce variables e.g expansion rates, human error, chipped or broken teeth etc. The Accuracy is ISO 12836 with 'Crown & Bridge' at 5 microns and 'Implants' at 8 microns.

Accuracy of 'Design':

Once digitally scanned, the parameters of the prepared tooth, margins, occlusion is defined clearly and the parameters are locked with any areas of concern, customised within the locked parameters. The restoration can then be designed and altered with our 'Natural Anatomy Library' within the locked parameters.

Accuracy of Milled & 3D Printed restoration:

The parameters of the 'Scan & Design' are locked and cannot be altered further, the restoration is then 'Milled' or '3D Printed' from the locked digital parameters. Once the restoration has been made, It is then fitted to a working model and then further on a solid model to minimize variables. The restoration is then 'Quality Controlled' for fit, aesthetics, occlusion, contact areas and margins.

Indications of use (Scan & Designed) :

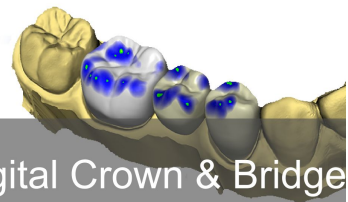
Anterior or posterior single crowns, full contoured crowns, inlays, onlays, veneers, bridges, abutments, implant bars, surgical guides, digital models, digital waxups, cobalt chrome frameworks and orthodontic retainers.

Common materials used for restorations:

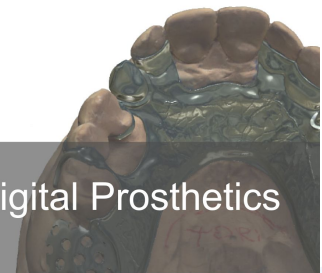
IPS e.max, Zirconia, PMMA, Titanium, Peekton, Cobalt Chrome (CoCr), Non-Precious and Semi Precious alloys.



Digital Implantology



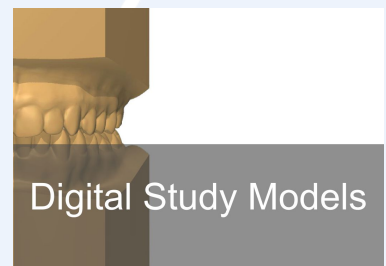
Digital Crown & Bridge



Digital Prosthetics



Digital Impressions



Digital Study Models



Digital

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