



**CHEMDENT**  
DENTAL MATERIALS



# CATOLOGUE

## SOLUTIONS FOR THE DENTAL SECTOR

2023

[www.chemdent.com](http://www.chemdent.com)

## SAFE AND EFFECTIVE BONDING

CHEMDENT M-BOND-C has been specifically designed as an effective and safe bonding ceramic between non-precious metal dental alloys and ceramic layers. It is compatible with all, regardless of the production method (scraping, casting, laser sintering) of the metal to be coated. Thanks to its very fine grain size, it is easy to apply and contributes to the curtaining of the metal color after firing. All Chendent ceramic powders are medical grade products that do not contain heavy metals.

## GÜVENLİ VE ETKİLİ BAĞLANMA

CHEMDENT M-BOND-C, özellikle değerli olmayan metal diş alaşımları ile seramik katmanlar arasında etkili ve güvenli bir bağlayıcı seramik olarak tasarlanmıştır. Kaplanacak metalin üretim metodundan (kazıma, döküm, lazer sinterleme) bağımsız olarak hepsine uyumludur. Çok ince tane boyutlu yapısı sayesinde kolay uygulanır ve pişim sonrası metal renginin perdelenmesine katkı sağlar. Tüm Chendent seramik tozları ağır metal içermeyen medikal grade ürünlerdir.



## EFFECTIVE ATTACHMENT AND PERFECT COVERING

Chendent Opaque is designed to hide the metal substructure and strengthen the metal-ceramic bond in metal-based ceramic restorations. With its fine grain size structure, it provides perfect uniform coverage on the metal surface as a result of correct application.

## ETKİLİ BAĞLANMA VE MÜKEMMEL ÖRTÜCÜLÜK

Chendent Opaque, metal alt yapı seramik restorasyonlarda metal alt yapının saklanması sağlamak ve metal seramik bağlantısını kuvvetlendirmek üzere tasarlanmıştır. İnce tane boyutlu yapısı ile doğru uygulama sonucunda metal yüzeyde mükemmel tek düze örtücülük sağlar.



## SAFE AND EFFECTIVE GLAZING

Chendent Glaze Powder is designed to be used for glazing all kinds of dental ceramic restorations. It increases the strength resistance by reducing the depth and width of microcracks that are likely to be found in end restorations, while at the same time improving its optical properties, it allows it to imitate the appearance of a natural tooth. Its very fine grain size provides ease of use and excellent gloss. It significantly reduces the plaque formation on the ceramic surface and facilitates the patient's prosthesis care.

## GÜVENLİ VE ETKİLİ BAĞLANMA

Chendent Glaze Powder, her türlü dental seramik restorasyonların sırlanmasında kullanılmak üzere tasarlanmıştır. Son restorasyonlarda bulunması muhtemel mikro çatlakların derinliğini ve genişliğini azaltarak mukavemet direncini artırırken aynı zamanda optik özelliklerini geliştirerek doğal bir dişin görünümünü taklit etmesini sağlar. Çok ince tane boyutlu yapısı kullanım kolaylığı ve mükemmel parlaklık sağlar. Ağız içi asidik ortamda sıfır çözünme ile seramik sistemin uzun süre kullanılmasında etkilidir. Seramik yüzeyde plak oluşumunu ciddi oranda azaltarak hastanın protez bakımını kolaylaştırır.





## MODELLING LIQUID

It is designed to enable ceramists to easily layer and model for dental ceramic powders. Thanks to delayed evaporation, it provides a stable working consistency for a long time. Thanks to the dough consistency feature it brings to the ceramic powder, an easily formable powder is obtained. During the drying phase, the liquid leaves the structure without leaving any combustion waste and the firing process is completed with minimum shrinkage. It contributes to the improvement of optical properties, thanks to the excellent formulation of the liquid components and the absence of tracers in the ceramic structure.

## MODELLEME LİKİTİ

Dental seramik tozlar için seramistlerin rahatlıkla katmanlama ve modelleme yapılabilmesini sağlayacak şekilde tasarlanmıştır. Geciktirilmiş buharlaşma sayesinde uzun süre stabil bir çalışma kıvamı sağlar. Seramik toza kazandırdığı hamur kıvamı özelliği sayesinde kolayca form verilebilir bir toz elde edilmiş olur. Kurutma aşamasında likit yanma atığı bırakmadan yapıdan uzaklaşır ve minimum küçülme ile ateşleme işlemi tamamlanmış olur. Likit bileşenlerinin mükemmel formülasyonu ve seramik yapıda iz bırakacak madde barındırmaması sayesinde optik özelliklerin iyileştirilmesine katkıda bulunur.



## OPAQUE LIQUID

It is a working liquid designed to provide perfect uniform coverage of dental ceramic opaquer powders on metal substructure. It is stable on the surface during application and contributes to the successful completion of the storage of the metal infrastructure.

## OPAK LİKİTİ

Dental seramik opak tozlarının metal alt yapı üzerinde mükemmel tek düze örtücülük sağlaması için tasarlanmış çalışma likitidir. Uygulama esnasında yüzeyde stabil olup metal alt yapının saklanması işleminin başarıyla tamamlanmasına katkıda bulunur.



## GLAZE LIQUID

It is designed for the application of dental ceramic glaze powders as a thin layer on the final restoration. It is stable on the surface during application and contributes to the successful completion of the glazing process.

## GLAZE LİKİTİ

Dental seramik glaze tozlarının son restorasyon ince bir katman şeklinde uygulanabilmesi için tasarlanmıştır. Uygulama esnasında yüzeyde stabil olup sırlama işleminin başarıyla tamamlanmasına katkıda bulunur.



## CHEMSTONE HIGH QUALITY DENTAL PLASTER WITH COLOR AND TYPE OPTIONS

Accurate modeling is required to produce a successful prosthesis. CHEMSTONE 3 AND 4 type plasters were produced with this fact in mind. High quality standards have been achieved by performing quality controls at every stage of production.

CHEMSTONE dental plasters, available in different packages and color options, solve the needs of laboratories in accordance with the most common impression materials on the market.



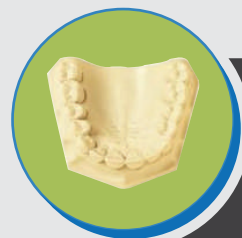
**ARTICULATOR**



**ORTHODONTIC**

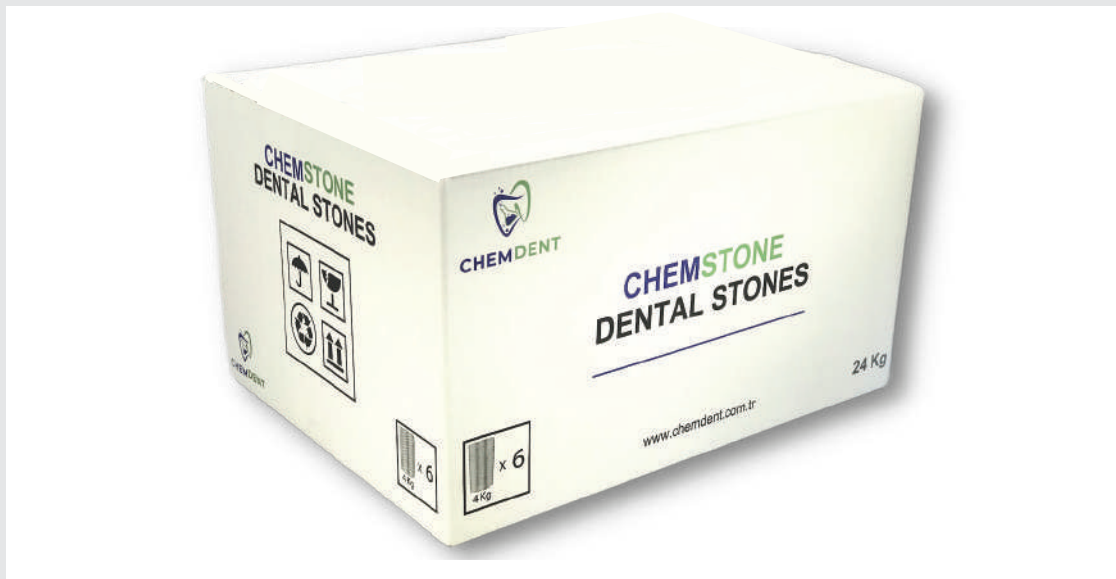


**TYPE - 3**



**TYPE - 4**

# DENTAL STONES



**Blue**



**Green**



**Yellow**

# DENTAL STONES TECHNICAL DATA

CHEMSTONE	TYPE 3	TYPE 4	ORTHODONTIC	ARTICULATOR
Water/Powder	26 ml/100g	23 ml/100g	25 ml/100g	25 ml/100g
Mixing Time(m)	0:65	1:00	0:65	0:65
Working Time(m)	5:00	5:00	5:00	5:00
Setting Time(m)	14:00	16:00	14:00	14:00
Removal Time(m)	45:00	45:00	45:00	45:00
Expansion After 2h	0.08%	0.05%	0.08%	0.08%
Expansion After 48h	0.10%	0.09%	0.10%	0.10%
Comp. Strength 1h	42 MPa	40 MPa	42 MPa	42 MPa

## DURABLE, ERGONOMIC, DIGITAL CONTROL, LARGE INTERIOR, FAST POLYMERIZATION

It is designed for rapid polymerization of photosensitive uv resin-based materials such as UV Basplates. Thanks to the cover design that opens in the upward direction, convenience is provided in the working environment. Long-lasting and effective UV lamps are used. The reflective property of the stainless steel casing is combined with the roof modeling. In this way, it is ensured that the efficiency of the light on the material is increased by making too many refractions in the polymerization area. As a result, the polymerization time of our device, which has a large inner chamber with a capacity of 4 measuring spoons, has been shortened by 50%.

### Technical Data

Supply Voltage and Frequency: 220V / AC-50-HZ

Power Consumption: <20 Watts

Overall Dimensions: 170x305x110H mm

Weight: 1.96 Kg

Drying Time: From 0.1 minutes to 9.9 minutes

Uv Lamp-Blue: 18W/0.34A – UV radiation between 350-400 nm

Lamp Shelf Life: approximately 2,000 hours





## Super Fast Model Scanner

Single Jaw Scan  
in 6 seconds

Full Arc Scan  
in 9 seconds

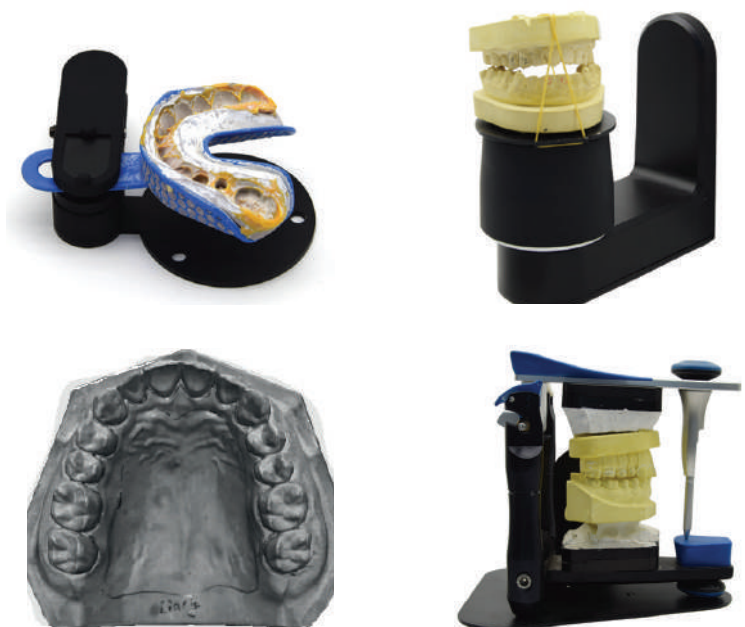
Multiple Die Scan  
in 9 seconds

Measuring Spoon  
Scan in 70 seconds

Implant, Orthodontic,  
Impression, Articulator  
scans...



## APPLICATIONS



### High Quality Standards



ISO 12836 Dental Restoration CAD/CAM Systems



VDI 2634 Optical 3D measurement Systems



ANSI/ADA Laboratory CAD/CAM Systems





# 3D-MSCAN TECHNICAL DATA

TECHNICAL SPECIFICATIONS	
Camera Resolution	1.3 Mega Pixels x 2
Distance Between Points	10 um
Scanning Area	100 x 100 x 75 mm
Scan Method	Phase-shifted optical triangulation
Size	37 x 35 x 42 cm
Weight	5 Kgs
Source of light	*LED, Blue Light, 150 ANSI Lumens*
Connection	USB 3.0 B-type
Sensitivity (ISO12836)	10 µm
Full Mouth Scanning Speed	7S (8S cut)
Tissue	✓
Articulator Scan	✓
Replica Scan	✓
Orthodontic Screening	✓
Dimension Scan	✓
RECOMMENDED COMPUTER HARDWARE	
ITEM	MODEL
CPU	Intel i7 - 9750H
DDR	DDR4 2666 16 GB
HDD	2TB 256MB 7200RPM
SSD	240 GB SSD SATA 3.0 TR200
Graphic Card	GeForce GTX 1660
MINIMUM REQUIRED FEATURES	
ITEM	MODEL
CPU	Intel i5-9400H
DDR	DDR4 2666 8GB
HDD	2TB 256MB 7200RPM
Graphic Card	GeForce GTX 1050Ti



## Super Fast Scanner

Full Arc Scan in  
Maximum 30-40 Seconds

Implant, Orthodontic,  
Single Jaw, Cut Model  
Scan,  
Standard Articulator  
Clear edge line  
Full HD color  
High accuracy

With 3 different tips,  
meet more demands  
of different applications

Lightest 3D Intraoral  
Scanner  
One-click start stop



## APPLICATIONS



### High Quality Standards

- CFDA
- CE
- ISO13485
- FDA
- INMETRO
- ANVISA



# 3D-OSCAN TECHNICAL DATA

TECHNICAL SPECIFICATIONS	
Camera	Double Camera
Scan Area	18*16 mm
Scan Depth	20 mm
Scan Accuracy	5 µm
Verification	10 µm
Weight	228g
Product Dimensions	216 x 40 x 36 mm
Connection	USB 3.0 B-type
Colour	Full HD
Full Mouth Scan Speed	30-40 Second
Color Measurement	✓
3D Data Imaga	✓
Closure Matching	✓
Border Line Drawing	✓
Orthodontic, Implant, Restoration...	✓
RECOMMENDED COMPUTER HARDWARE	
ITEM	MODEL
System	Windows10*64 bit
CPU	Intel Core i7 - 10870H / 10875H / 11800H
Graphic Card	GTX 1660Ti/RTX2060/RTX3060
RAM	16G or 32G
ROM	512G SSD and above
Interface	USB 3.0

## BİZ KİMİZ

1980 yılı itibarıyla Diş Laboratuvarı olarak başlayan yolculuğumuz Klinik tecrübesinin de eklenmesinin akabinde ayrı bir girişime dönüştü ve bu süreçler Chemdent'i doğurdu. Chemdent isminden de anlaşılacağı gibi Kimya Bilimi ve Malzeme Mühendisliğinin Dental Sektör ile buluştuğu yerde var oldu. Sahip olduğumuz Bilimsel Bilgi birikimi ile yine köklerimizden gelen Laboratuvar ve Klinik tecrübemiz; yenilikçi bir ruh ile Dental sektörüne ivme kazandıracak bir bilince dönüştü.

Kurucularımızın Akademik nitelikleri, ARGE Merkezleri ile olan işbirliği çalışmalarımız, Kimya sektöründe global ölçekli sanayi üretim tecrübemizin olması ile beraber köklerimizden Dental Sektörde çok eskilere dayanması; ayaklarımız yere sağlam basarken bakışlarımızın engin ufuklarda olmasını sağladı. İstanbul Tuzla Organize Sanayi Bölgesinde kurduğumuz 2000 m<sup>2</sup>

lik üretim tesisimizde Dental Profesyoneller için faaliyetlerini yürütmektedir.

Bu bağlamda firmamız Diş Hekimlerinin ve Diş Teknisyenlerinin ihtiyaçları doğrultusunda; "kaliteli üretici" ve "kaliteli tedarikçi" kimliği ile faaliyetlerini yürütmektedir.

## WHO ARE WE

Our journey, which started as a Dental Laboratory in 1980, turned into a separate initiative after the addition of clinical experience, and these processes gave birth to Chemdent. As the name suggests, Chemdent existed where Chemical Science and

Materials Engineering met the Dental Industry. Our Scientific knowledge and Laboratory and Clinical experience coming from our roots; It has turned into a consciousness that will accelerate the dental sector with an innovative spirit. Academic qualifications of our founders, our cooperation with R&D Centers, our global scale industrial production experience in the Chemical sector, and our roots in the Dental Sector; while our feet were firmly on the ground, he kept our gaze on the vast horizons.

It carries out its activities for Dental Professionals in our 2000 m<sup>2</sup> production facility that we established in Istanbul Tuzla

Organized Industrial Zone. In this context, our company in line with the needs of Dentists

and Dental Technicians; It carries out its activities with the identity of "quality manufacturer" and "quality supplier".



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