



GENERAL CATALOG
Knowledge-Based Company





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MEDICAL**

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HAMERZ MEDICAL

Knowledge-Based Company



HAMERZ Medical Co., as a leading player in the dental healthcare industry, strives to become the first choice for dentists and specialists in this field.

Committed to excellence, HAMERZ Medical Co. leverages its strong infrastructure and a professional, experienced team to manufacture and deliver advanced and high-quality dental materials and equipment in the fields of endodontics, prosthetics, and restorative dentistry, adhering to the latest European and global industry standards and technology.

At HAMERZ Medical Co., our priority is the quality and safety of our products. We have established a robust and comprehensive quality management system, incorporating international standards such as ISO 13485, ISO 9001, and GMP. Our research and development team, comprised of expert professionals from reputable universities, focuses on innovation and product improvement, actively contributing to the development of new dental technologies.

We are committed to environmental preservation and offering eco-friendly products. In our production processes, we employ methods, materials, and equipment selected to reduce waste, enhance energy efficiency, and protect the environment.

Customers play a vital role in HAMERZ Medical Co.'s expansion of its product portfolio. We prioritize providing continuous, comprehensive services and support to our customers. Alongside our professional and responsive sales team, we aim to provide custom solutions and continuous enhancements to meet our customers' needs.

HAMERZ Medical Co. takes pride in covering a broad spectrum of the Iranian market, entering the global market, and reducing the final product's cost. Our mission is to facilitate dentists' access to the latest, advanced technology products. And our vision is to be recognized in this industry as a familiar and trustworthy name for dentists.

Glass Liner

Light-Curing Lining Material

Syringe **2.0 ml (3.6 g)**

Glass Liner is a one-component light-curing, flowable, and radiopaque glass-ionomer lining material. Glass Liner can be used as a lining under all types of filling materials, including composites, amalgams, indirect restorations, extended fissure sealing, and for the treatment of smaller lesions. Glass Liner is thixotropic and thereby easy to handle. It also contains fluorides which remineralize the tooth enamel.

Specification

- Direct and easy injection
- Effectively prevents secondary caries
- High fluoride release and remineralization
- High compressive strength and strong adhesion to dentine
- Bacteriostatic effect and high biocompatibility
- Sets well under all types of filling materials
- Ideal for extended fissure sealing
- Thixotropic properties
- High radiopacity
- Easy handling
- Suitable for minimal lesions and cavity preparation

Technical Specification

- Density: 1.7-1.8 g/cm³
- Compressive Strength: 200 Mpa
- Curing depth: 2 mm
- Polymerization time: 30 s
- Viscosity: 170-290 Pa.s
- Shelf Life: 3 years (6 months after opening)



Edge Line is a two-component self-cure glass-ionomer cement with minimal shrinkage during hardening, results in less sensitivity compared to other composite materials. This product is suitable for lining under all kinds of filling materials, direct repair of small lesions and repairing deciduous teeth. It can be used as fissure sealant and shows excellent radiopacity. This product also contains fluoride preventing secondary caries.

Specification

Strong adhesion to both dentin and enamel
Remineralization with high fluoride release, preventing secondary caries
High compressive strength
Long-term biocompatibility
Transparent material without negative effect on the filling
Radiopaque
Self-cure

Technical Specification

Working Time: 100 s
Setting Time: 180-220 s
Film Thickness: 10 micrometers
Compressive Strength: 180 MPa
Water solubility: 0.2%
Adhesion to dentin: 5 MPa
Shelf life: 3 years

Edge Line

Glass-Ionomer Lining Cement

Powder bottle **15.0g**

Liquid Bottle **10.0ml**



Edge Fill

Glass-Ionomer Filling Cement

Powder bottle **15.0g**

Liquid Bottle **10.0ml**

Edge Fill is a two-component self-cure glass-ionomer cement for direct restorations of the cavity classes III and V, tunnel preparations, and deciduous teeth. It may also be used as fissure sealant. This product bonds well to the enamel and the dentine and can be polished after 15 min. Edge Fill is radiopaque and releases fluoride into the tooth. This product is available as a flexible powder/liquid system in two different shades (A2 and A3).

Specification

- Rapid application compared to composite
- Application in anterior and proximal contact areas
- Radiopaque
- Self-cure
- Long-term biocompatibility
- High compressive strength
- Excellent adhesion to the dentin and the enamel
- For recommended-shaped and abrasion defects, and in deciduous teeth

Technical Specification

- Working Time: 90-120s
- Setting Time: 180 s
- Film Thickness: 10 micrometers
- Compressive Strength: 180 MPa
- Water solubility: 0.2%
- Adhesion to dentin: 4 MPa
- Shelf life: 3 years



EDGE COM is a nano-hybrid light-cure composite for restorations of all cavity classes in the anterior and posterior areas. EDGE COM is easy to handle because it does not stick to the instruments and at the same time adapts perfectly to the cavity walls. The product shows a very low shrinkage. EDGE COM also generates esthetic results because it is high gloss polishable and translucent. Thanks to its high strength and outstanding esthetics, Edge COM is suitable for veneers.

Specification

Nano-hybrid
 Light cure
 Repairing of all cavity classes and restorations in the posterior and anterior areas
 Applicable for direct veneers
 High strength and wear-resistance
 The low shrinkage of only 1.7%, minimizing the risk of secondary decay
 Thixotropic, not sticky to tools
 Excellent polishability
 Desired translucency
 Radiopaque
 Color stability

Technical Specification

Compressive strength: > 45 MPa
 Flexural strength: > 155 MPa
 Flexural modulus: > 6 GPa
 Shrinkage: 1.7% linear
 Curing Depth: 2 mm
 Color Shades: in accordance with VITA® shade guide *
 Ceramic filler: 77% wt
 Curing time: 20s

*VITA is the registered trademark of vita-zahnfabrik

Edge Com

Nano-Hybrid Universal Composite

Syringe **4.0 g**



www.hamerzmedical.com

Edge Flow

Nano-Hybrid Flowable Composite

Syringe **2.0 g**

EDGE FLOW is a flowable, light-curing composite for direct restorations of the cavity classes III, IV and V as well as repairs of bis-acrylate materials. EDGE FLOW is thixotropic, which makes it agreeable to handle. The composite does not run away from the place of application while is fluid when manipulated. EDGE FLOW is also nicely polishable and delivers esthetic restorations. The shrinkage is 1.7%, which reduces secondary caries.

Specification

Suitable for direct restoration of class III, IV, V caries
 Filling small cavities of class I, II caries
 Filling the anterior areas of the cavity-class III, IV
 Bonding of ceramic and composite restorations
 Extended fissure sealing for premolar and molar teeth
 Low shrinkage of only 1.7 %, reducing the risk of secondary decay
 Thixotropic
 Light cure
 Excellent polishability
 Optimal viscosity
 Radiopaque
 Easy repair and very good handling
 Color stability

Technical Specification

Compressive strength: > 80 MPa
 Flexural strength: > 5.6 MPa
 Flexural modulus: > 80 MPa
 Shrinkage: 1.7 %
 Curing depth: <2 mm
 Color Shades: in accordance with VITA® shade guide *
 Ceramic filler: 54% wt
 Curing time: 30-40 s

*VITA is the registered trademark of vita-zahnfabrik



EDGE BOND is a bonding agent for the total-etch technique with excellent adhesion to dentin and enamel. It ensures a secure adhesion between the tooth and composites. The material shows a good flowable consistency and is easy to use. EDGE BOND also adheres on glass-ionomer linings.

Specification

- Excellent adhesion to dentin and enamel
- Resistant to evaporation
- Used in the connection between dentin and composite
- High bonding strength (13.5 MPa)
- Very high permeability
- Water tolerant (insoluble in water)
- No gaps in the margin areas
- Adherence to lining materials including glass ionomer
- Easy to use and long-term durability

Technical Specification

- Tensile strength: 12 MPa
- Notched-edge shear strength: 41 MPa
- Curing time: 15-30 s
- Viscosity: 0.3-0.8 Pa.s

Edge Bond

Universal Bonding Materials

5th Generation

Bottle **5.0 ml**



Edge Bond SE

Self Etch Bonding Material

7th Generation

Bottle **5.0 ml**

EDGE BOND Self-Etch (SE) is a self-etching, light-curing one-component bonding for adhesive restorations. The material contains methacrylate. One step application of EDGE BOND SE makes it time saving material.

Specification

- One step etch and bond without prior etching
- Elastic connection between tooth and composite
- Perfect bonding of composites to dentin, enamel and lining materials, including glass ionomer
- Very high permeability
- Contains methacrylate
- No gaps in the margin areas
- Hydrophilic
- Easy to use and long-term durability
- Water tolerant (insoluble in water)

Technical Specification

- Bonding strength: 13.5 MPa
- Viscosity: >0.5 dynamic Pa.s
- Curing duration: 10 seconds with 800mW/cm² power



BLUE ETCH is in the form of 37% phosphoric acid gel. Blue Etch creates microscopic spaces in the tooth enamel (increasing the surface roughness) which results in very good bonding (micro-mechanical retention). When drying, the etched surface appears white. Blue Etch also removes surface contamination and helps keep tooth enamel moist. (It removes the smear layer and the hybrid layer.)

Specification

37% phosphoric acid solution
Gluten and glycerin free
Total-Etch system function
Increasing the bonding strength
Suitable for use before composite, bonding, adhesive and all kinds of sealants
Ideal viscosity and the ability to permeation of all gaps
Not spreading vertically and to unwanted parts
Unique self-limiting chemical characteristic: 2 μm Average depth of penetration within 15 to 20 seconds
Removing quickly and easily with water spray
The possibility of precise deployment in areas with severe access restrictions

Technical Specification

Etching time: 30 sec for enamel and 15 sec for dentin
Depth of etching: 2 μm
Thixotropic

Blue Edge

37% Phosphoric Acid Etching Gel

Syringe **3.0 ml**



Porcelain Edge

9.5% Hydrofluoric Acid Etching Gel

Syringe **3.0 ml**

PORCELAIN EDGE (containing 9.5 % hydrofluoric acid) is a hydrofluoric acid, which is specifically used to create an etched surface for broken porcelain restorations and all-porcelain restorations. It can also be used to etch ceramic veneers before connecting orthodontic brackets.

Specification

Hydrofluoric acid gel 9.5 %

Can be used for: surface etching of veneers, inlays, porcelain and ceramic onlays, broken teeth inside the mouth

Preparation of porcelain surface for stronger bonding with resin and composite

Can be washed quickly and easily with water spray

The possibility of precise deployment in areas with severe access restrictions

Technical Specification

Etching time: 60 sec

Depth of etching: 2 μ m

Thixotropic



EDTA 17% Solution is buffered to a neutral pH and is an effective calcium binding or chelating agent used to facilitate instrumentation of root canals and for smear layer removal. It decalcifies the canal walls making it easier to enlarge and shape the canal with files and reamers.

Specification

EDTA solution is used to wash the tooth canal
A clear, colorless and odorless liquid
Softens the tooth root and dissolves calcium with the chelate effect
Easy to open and clean the calcified canal
Cleans the dentin wall after removing the smear layer
Removes inorganic substances
Neutral pH
In the form of cream, gel or liquid

Technical Specification

Peroxide containing

Edge Prep

17% EDTA Cream

Syringe **5.0 ml**



Edge Seal Resin

Resin-Based Root Canal Sealer

Syringe **10.0 g**



EDGE SEAL RESIN is a resin based root canal sealer material with excellent sealing ability and excellent biocompatibility. This product is a non-staining material to the resin. Edge Seal shows a good radiopacity and easy handling. As a pre-mixed product, the application is very fast and easy.

Specification

- More effective obturation in shorter time
- Provides a complete, thorough seal
- Great radiopacity
- Provides syringe delivery to the apical third
- Low shrinkage and no gap between the sealer and the canal wall
- Low solubility and resistant to breakage over time
- Available as double syringes (base and catalyst) with a ratio of one to one
- Suitable for side canal filling
- Great biocompatibility
- Creating a thin layer around gutta percha
- Ease of automatic mixing of base and catalyst
- No discoloration on teeth
- Excellent flowability
- Insoluble in tissue fluids
- Suitable for sensitive pulps

Technical Specification

- Flowability: 22 mm
- Setting time: 50 h (at 37 °C)
- Film Thickness: 20 µm
- Solubility: 0.9%wt

EDGE SEAL (MTA) is a paste-type root canal sealer that has excellent physical and biological properties of MTA. It is premixed and pre-loaded in a syringe that allows direct application of the sealer into the root canal without requiring powder/liquid mixing. The product has outstanding flowability, which makes it possible to completely fill the root canal system including accessory and lateral canals. It is eugenol-free and will not impede adhesion inside the root canal.

Edge Seal (MTA) is developed for root canal filling and root perforation repair, effectively preventing periapical tissue irritation as well as secondary infection.

Specification

- High biocompatibility
- Low shrinkage, superior dimensional stability
- Hydrophilic
- Bonding the hydroxyapatite with the dentin wall
- High antibacterial effect
- Homogeneous particle size distribution
- Fast setting time
- Easy and fast root canal filling
- Increased formation of hard tissue
- Excellent film thickness
- Ready-to-inject paste
- Complete apical sealing

Technical Specification

- Fast setting time: 10-12 minutes
- Easy retrieval with NiTi files
- Hermetic apical sealing
- High radiopacity
- Promotion of hard tissue formation
- No postoperative pain after overfilling

Edge Seal (MTA)

Bioceramic Sealer (MTA-Based)
Syringe 3.0 g



Edge Seal (TCS)

Bioceramic Sealer (TCS-Based)

Syringe **3.0 g**



EDGE SEAL (TCS) have high tissue compatibility. This product has a very low shrinkage showing superior dimensional stability. Edge Seal (TCS) is hydrophilic and leads to bonding the hydroxyapatite with the dentin wall.

Specification

- Containing tricalcium silicate
- High biocompatibility
- Low shrinkage, superior dimensional stability
- Hydrophilic
- Bonding the hydroxyapatite with the dentin wall
- High antibacterial effect
- Homogeneous particle size distribution
- Fast setting time
- Easy and fast root canal filling
- Increased formation of hard tissue
- Excellent film thickness
- Ready-to-inject paste
- Complete apical sealing
- Good regenerative ability

Technical Specification

- Fast setting time: 10-12 minutes
- Easy retrieval with NiTi files
- Hermetic apical sealing
- High radiopacity
- Promotion of hard tissue formation
- No postoperative pain after overfilling

The SUPER FILE is an economic endodontics rotary instrument made of high quality controlled memory Nickel Titanium wire with cutting edges and passive tip. SUPER FILE, having progressive taper comes in two colors, blue and gold, provides good flexibility and fracture toughness used to mechanically shape and prepare the root canals during endodontics therapy or to remove the root canal filling material while performing re-treatment. Super-File also shows good resistance against torsional fracture and cyclic fatigue failure, making it suitable for anterior and posterior teeth. Having safe tips, SUPER FILE avoids canal transportation and ledge formation.

Specification

Gold system

Treatments of anterior teeth with moderate to mild curved root canals
 Treatments of posterior teeth with partially easy root canals
 Higher cutting efficiency compared to the blue one

Blue system

Treatment of complex root canals such as curved and narrow and calcified ones
 Higher flexibility compared to the gold one

Technical Specification

HV-200 micro-Vickers hardness: >365
 Torsional fracture strength: 10.9 mN.m
 Fracture degree: >490
 Stiffness: 8.0 mN.m

SUPER-Files

Endodontics Rotary NiTi Files



www.hamerzmedical.com

E-Flex Files

Endodontics Rotary NiTi Files

E-Flex is a highly flexible endodontics rotary instrument specifically designed to negotiate curved canals. It shows excellent resistance against torsional fracture and cyclic fatigue failure. E-Flex is available in two colors, gold and blue, and comes in different tapering systems, 0.04, 0.06 and progressive for varying canal anatomies and a great all-round file system. E-Flex provides excellent cutting efficiency and high flexibility, making it a good choice to reduce ledge formation, apical extrusion and canal transportation. Using different techniques of manufacturing and having variable pitch, E-Flex prevents locking and brings safe treatments.

Specification

Gold system

Treatments of anterior teeth with moderate to mild to moderate curved root canals
 Treatments of posterior teeth with partially easy root canals
 Higher cutting efficiency compared to the blue one

Blue system

Treatment of complex root canals such as curved and narrow and calcified ones
 Higher flexibility compared to the gold one

Technical Specification

HV-200 micro-Vickers hardness: >268
 Torsional fracture strength: 10.9 mN.m
 Fracture degree: >490
 Stiffness: 8.0 mN.m



EDGE FILE is an outstandingly flexible endodontics rotary instrument using very high quality NiTi alloy which improves strength and flexibility and makes it suitable for difficult canals. Proprietary heat treatment processing makes the file extremely flexible which reduces the bounce back effect compared to the other NiTi rotary files. In addition, our special electro-polish process increases sharpness and strength of the file which leads to high efficiency in cutting and removing debris. Employment of different tapering systems results in prevention of locking and bringing high quality safe treatment and re-treatment.

Specification

Optimum flute diameter for minimally invasive preparation
Maximizes file cutting efficiency due to a very specific cross section and non cutting tip design
Increasing sharpness and strength of file using special electro-polishing technique
Reduced handle length for increased posterior access

Technical Specification

HV-200 micro-Vickers hardness: >370
Torsional fracture strength: 10.9 mN.m
Fracture degree: >490
Stiffness: 8.0 mN.m

Edge Files

Endodontics Rotary NiTi Files





**HAMERZ
MEDICAL**



QUALITY MANAGEMENT SYSTEM



This is to certify that
HAMERZ MEDICAL CO.

Block 36, Piece ½, 4 Th Street, Payam Special Economic Zone, Alborz, Iran

has been assessed and found in compliance with the requirements of international standard of Quality Management System

ISO 9001:2015
Registration Scope of Activities:

Manufacturing of Dental Rotary Files, Bleaching, Dental Filling Materials (Dental Composites), Bonding and Adhesive Materials, Glass Ionomer and Glass Liner Materials, Dental Sealer and Cements, Etching Materials, Porcelain Etchant, Root Canal Preparation Materials (EDTA)

Certificate Issue Date: 05 July 2023 First Issuance Date: 05 July 2023
This Certificate Expiry Date: 04 July 2026 Annual Renovation Period: 100

This certificate will be valid for three years since last issue date. If the system continuously assessment is approved by BRS LLC auditors (at least once a year) in the same 3 years period (the certification date: 04 July 2026), and it will be approved by the standard requirements and the audited judgements.

BRS LLC has the right of ownership of this certification; therefore it is not transmutable and remains the property of BRS LLC.

Certificate unique code: 40831232



O.M. Sim, BRS LLC Managing Director



This electronic certificate can be authenticated by contacting BRS LLC. By issuance of this certificate the organization will update and maintain its registration in accordance to current registration through the application of the current version of ISO 9001.

Further clarifications on the scope of this approval and the applicability of ISO 9001 for the purpose to regulatory compliance may be obtained through communication with BRS LLC. This registration is included in the BRS LLC Directory of Registered Organizations and applies within the scope shown above. By issuance of this certification, the organization will update and maintain its registration in accordance with current revisions of standards through annual surveillance and re-certification purposes to the points of origin and commercialization.

Bullek Registration Services LLC.
The certificate is issued at technical office: No. 30th, Abasad Tower, Eshdihini St., Marashan Blvd., Tehran, Iran
Head office: 11479 Argahbi St., Kerman 76023, Yerevan, Armenia
BRS LLC operates according to the BRS (BRS®) (Basking Springs, California, USA) principles & policies

For more information about this document, please contact to: technical.dept@bri-global.com

QUALITY MANAGEMENT SYSTEM
Medical Devices GMP



This is to approve that
HAMERZ MEDICAL CO.

Block 36, Piece ½, 4 Th Street, Payam Special Economic Zone, Alborz, Iran

has been assessed basis of the examination were the requirements of the

GMP

Registration Scope of Activities:

Manufacturing of Dental Rotary Files, Bleaching, Dental Filling Materials (Dental Composites), Bonding and Adhesive Materials, Glass Ionomer and Glass Liner Materials, Dental Sealer and Cements, Etching Materials, Porcelain Etchant, Root Canal Preparation Materials (EDTA)

Certificate Issue Date: 05 July 2023 First Issuance Date: 05 July 2023
This Certificate Expiry Date: 04 July 2026 Annual Renovation Period: 100

This certificate will be valid for three years since last issue date. If the system continuously assessment is approved by BRS LLC auditors (at least once a year) in the same 3 years period (the certification date: 04 July 2026), and it will be approved by the standard requirements and the audited judgements.

BRS LLC has the right of ownership of this certification; therefore it is not transmutable and remains the property of BRS LLC.

Approval unique code: 40832232



O.M. Sim, BRS LLC Managing Director



Further clarifications on the scope of this approval and the applicability of medical device GMP for the purpose to good manufacturing practice may be obtained through communication with BRS LLC. This registration is included in the BRS LLC Directory of Registered Organizations and applies within the scope shown above. By issuance of this approval, the organization will update and maintain its registration in accordance with current revisions of ISO 9001 in annual surveillance and regulatory purposes to the points of origin and commercialization.

Bullek Registration Services LLC.
The certificate is issued at technical office: No. 30th, Abasad Tower, Eshdihini St., Marashan Blvd., Tehran, Iran
Head office: 11479 Argahbi St., Kerman 76023, Yerevan, Armenia
BRS LLC operates according to the BRS (BRS®) (Basking Springs, California, USA) principles & policies

For more information about this certificate, please contact to: technical.dept@bri-global.com

CERTIFICATE

This is to Certify that the Management System of
HAMERZ MEDICAL CO.
Block 36, Piece ½, 4 Th Street, Payam Special Economic Zone, Alborz, Iran

has been audited and found to comply with the requirements of:

ISO 13485:2016
(Medical Devices – Quality Management System)

For the Scope of activities described below:

Manufacturing of Dental Rotary Files, Bleaching, Dental Filling Materials (Dental Composites), Bonding and Adhesive Materials, Glass Ionomer and Glass Liner Materials, Dental Sealer and Cements, Etching Materials, Porcelain Etchant, Root Canal Preparation Materials (EDTA)

Certificate No.: IR99338H

Date of initial registration	Date of this Certificate	Surv. audit on or before/ Certificate expiry	Recertification Due
05 July 2023	05 July 2023	04 July 2024	04 July 2026

Validity of this certificate is subject to successful completion of surveillance audit on or before due date, in case surveillance audit not conducted this certificate shall be suspended/cancelled.



O.M. Sim, BRS LLC Managing Director





KAB-MC-04

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HAMERZ
MEDICAL



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Website



Instagram



Web App