

AMBARINO[®] *High-Class* Hybrid Glass Ceramic

One material for all indications

Veneer · Inlay · Onlay · Crown · Bridge · Implant prosthetics · Non Invasive



AMBARINO® *High-Class* – Hybrid Glass Ceramic

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Product Description

The aim

developing AMBARINO High-Class as a material that blends in perfectly with the patient's mouth and harmonizes with the healthy antagonists.

The solution

AMBARINO High-Class consists of a composite matrix of special polymers in which silicate glass fillers are embedded. The ratio between the two materials is optimized in such a way that the mechanical values correspond as best as possible to the natural properties of the tooth. The high-density composite matrix enables a X-ray visible, hardness-adapted and optimally elastic CAD/CAM material.

Like the real tooth

The mechanical strength of AMBARINO High-Class is almost equal to that of natural enamel. The flexural module of AMBARINO High-Class comes very close to the elasticity values of dentin. Tensions in the material, increased abrasion on the opposing jaw and damage to the antagonists can thus be avoided.

Ideal for bruxism

In the case of bruxism, splints help with the typical symptoms, but do not permanently prevent damage to the teeth. Minimally invasive occlusal surface veneers made of AMBARINO High-Class for correcting the bite position and provide an effective and completely natural remedy. Thanks to the dentine-like elasticity module, AMBARINO High-Class has a reliable shock-absorbing effect and is gentle on the antagonists.

Easy to process, beautiful to look at

AMBARINO High-Class impresses with its aesthetic appearance and excellent polishability. The discs and blocks are highly resistant to chipping and cracking during grinding. This allows you to easily achieve excellent edge stability and smooth margins for brilliant restorations.

Indications

Table tops, inlays, onlays, veneers, partial crowns, crowns and bridges (max. one pontic).

Cementation

Sandblast the surface. Pre-treat with a suitable bonding agent, e.g. Luxatemp-Glaze & Bond (DMG) or Temp Bonding Fluid (Micerium), according to the manufacturer's instructions for use. Then glue with a suitable dual- or chemical-curing luting composite, e.g. Perma Cem (DMG) or ENA Cem (Micerium).

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All sizes

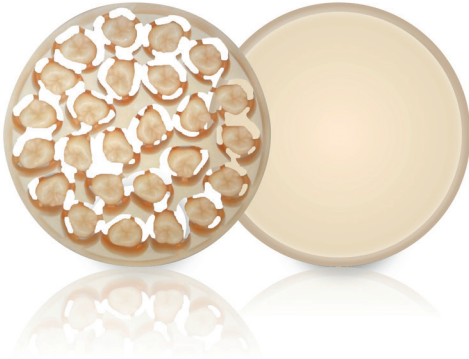


Benefits	AMBARINO® <i>High-Class</i>	Zirconia	Acrylic
Feels like natural teeth	✓	✗	✗
Durable	✓	✓	✗
Light weight	✓	✗	✓
Shock absorbing	✓	✗	✓
Adjustable chairside	✓	✗	✓
Stain resistant	✓	✓	✗
Bends under stress	✓	✗	✓
Can drill for endodontics	✓	✗	✓
No sintering required	✓	✗	✗
Ideal for bruxism	✓	✗	✗
Ideal for implants	✓	✗	✗
Easily bounded	✓	✗	✓

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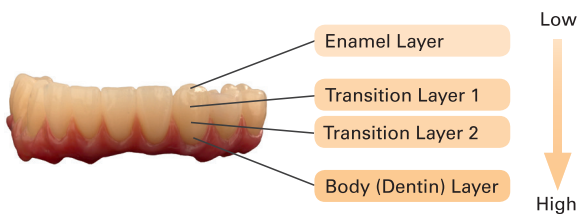
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Disc



REF	Item description
900100	AMBARINO High-Class Disc 15 mm A3
900104	AMBARINO High-Class Disc 20 mm A3
900105	AMBARINO High-Class Disc 10 mm A3
900200	AMBARINO High-Class Disc 15 mm A2
900204	AMBARINO High-Class Disc 20 mm A2
900205	AMBARINO High-Class Disc 10 mm A2
900300	AMBARINO High-Class Disc 15 mm B1
900304	AMBARINO High-Class Disc 20 mm B1
900305	AMBARINO High-Class Disc 10 mm B1
902100	AMBARINO High-Class Disc 15 mm A1
902102	AMBARINO High-Class Disc 20 mm A1
902105	AMBARINO High-Class Disc 10 mm A1
902200	AMBARINO High-Class Disc 15 mm C2
902202	AMBARINO High-Class Disc 20 mm C2
902205	AMBARINO High-Class Disc 10 mm C2
902300	AMBARINO High-Class Disc 15 mm D2
902302	AMBARINO High-Class Disc 20 mm D2
902305	AMBARINO High-Class Disc 10 mm D2
901215	AMBARINO High-Class Disc Veneer 15 mm Bleach 2
901220	AMBARINO High-Class Disc Veneer 20 mm Bleach 2
901221	AMBARINO High-Class Disc Veneer 10 mm Bleach 2
901615	AMBARINO High-Class Disc Veneer 15 mm Bleach 1
901620	AMBARINO High-Class Disc Veneer 20 mm Bleach 1
902400	AMBARINO High-Class Disc 15 mm A3,5
902404	AMBARINO High-Class Disc 20 mm A3,5
902405	AMBARINO High-Class Disc 10 mm A3,5

Disc Multicolor



REF	Item description
900106	AMBARINO High-Class Disc 15 mm A3-MC
900107	AMBARINO High-Class Disc 20 mm A3-MC
900206	AMBARINO High-Class Disc 15 mm A2-MC
900207	AMBARINO High-Class Disc 20 mm A2-MC
900306	AMBARINO High-Class Disc 15 mm B1-MC
900307	AMBARINO High-Class Disc 20 mm B1-MC
902106	AMBARINO High-Class Disc 15 mm A1-MC
902107	AMBARINO High-Class Disc 20 mm A1-MC
901222	AMBARINO High-Class Disc Veneer 15 mm Bleach 2-MC
901223	AMBARINO High-Class Disc Veneer 20 mm Bleach 2-MC
902406	AMBARINO High-Class Disc 15 mm A3,5-MC
902407	AMBARINO High-Class Disc 20 mm A3,5-MC

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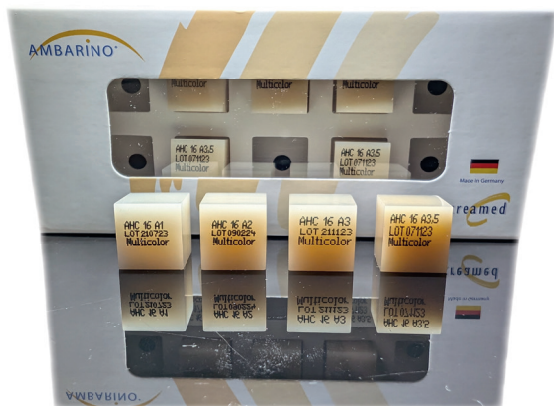
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C-Block AHC14

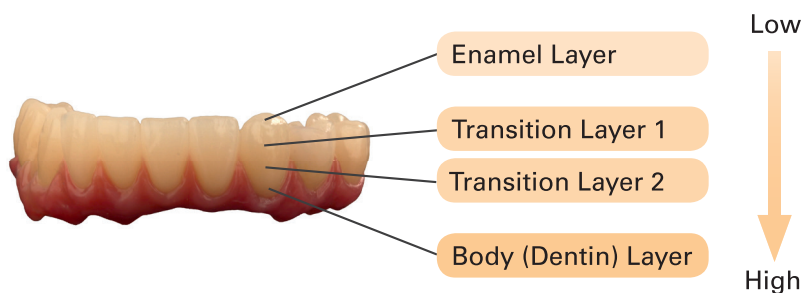


REF	Item description
900911	AMBARINO High-Class C-Block AHC14 A3
900912	AMBARINO High-Class C-Block AHC14 A2
900913	AMBARINO High-Class C-Block AHC14 B1
900914	AMBARINO High-Class C-Block AHC14 A1
900915	AMBARINO High-Class C-Block AHC14 C2
900916	AMBARINO High-Class C-Block AHC14 D2
900921	AMBARINO High-Class C-Block AHC14 A3,5
900923	AMBARINO High-Class C-Block AHC14 Veneer Bleach 1
901402	AMBARINO High-Class C-Block AHC14 Veneer Bleach 2

≡ C-Block AHC16 Multicolor



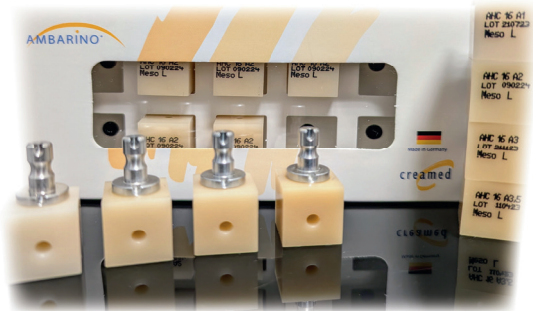
REF	Item description
901101	AMBARINO High-Class C-Block AHC16-MC A3
901102	AMBARINO High-Class C-Block AHC16-MC A2
901104	AMBARINO High-Class C-Block AHC16-MC A1
901105	AMBARINO High-Class C-Block AHC16-MC A3,5



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C-Block AHC16 Meso S and L



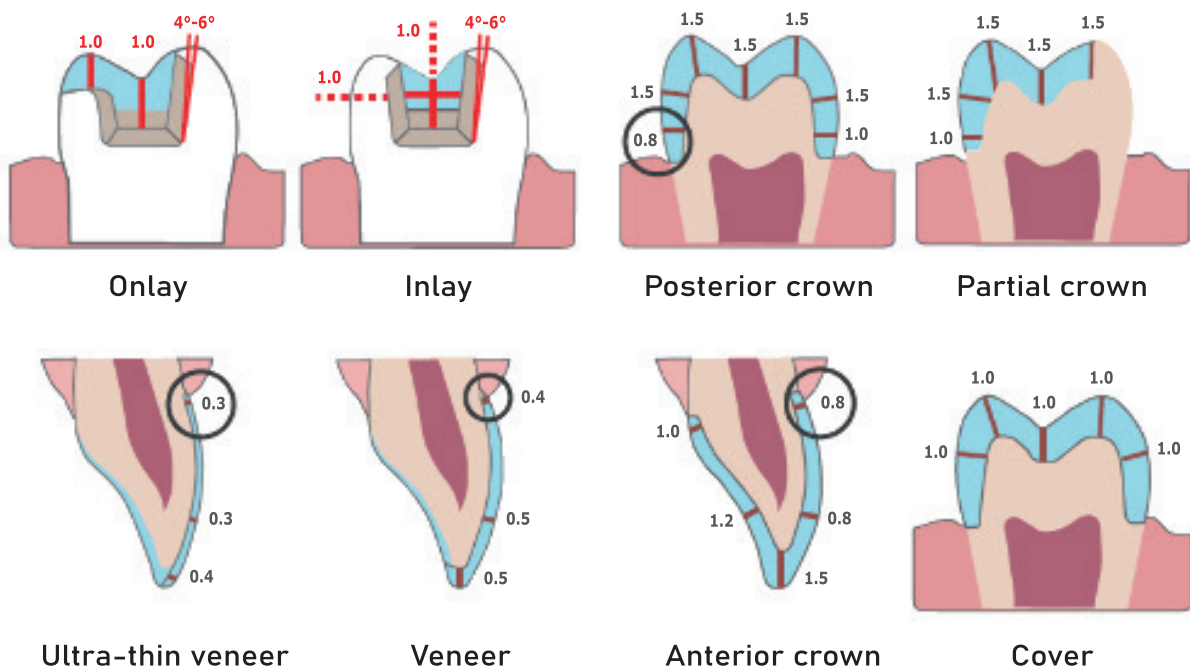
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901001	AMBARINO High-Class C-Block AHC16-S A3
901003	AMBARINO High-Class C-Block AHC16-S A2
901007	AMBARINO High-Class C-Block AHC16-S A1
901009	AMBARINO High-Class C-Block AHC16-S A3,5
901002	AMBARINO High-Class C-Block AHC16-L A3
901004	AMBARINO High-Class C-Block AHC16-L A2
901008	AMBARINO High-Class C-Block AHC16-L A1
901010	AMBARINO High-Class C-Block AHC16-L A3,5

C-Block B40



REF	Item description
900811	AMBARINO High-Class C-Block B40 A3
900812	AMBARINO High-Class C-Block B40 A2
900813	AMBARINO High-Class C-Block B40 B1
900814	AMBARINO High-Class C-Block B40 A1
900815	AMBARINO High-Class C-Block B40 C2
900816	AMBARINO High-Class C-Block B40 D2
900817	AMBARINO High-Class C-Block B40 A3,5
901302	AMBARINO High-Class C-Block Veneer B40 Bleach 2

Preparation recommendations



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Properties

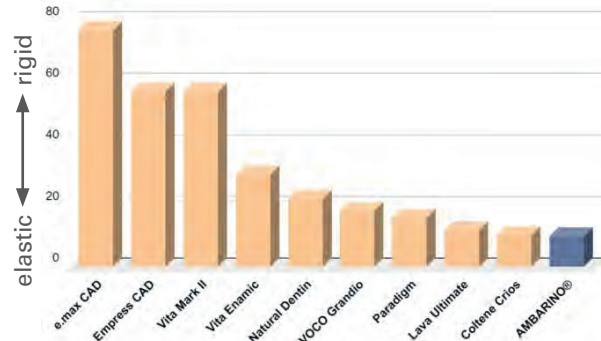
AMBARINO® High-Class is More Elastic

Modulus of Elasticity indicates whether the material will dampen the effects of chewing, allowing the restoration to flex and give under pressure, which reduces fractures and chips over time on all types of restorations.

AMBARINO® High-Class is more elastic compared to other modern millable dental ceramics and hybrids.

Additionally, because an implant patient doesn't have the feedback mechanism and shock absorbing features of a periodontal ligament to rely on, elasticity of the restoration can also crucially reduce the transfer of energy to the underlying implants and bone structure.

Modules of Elasticity (GPa)

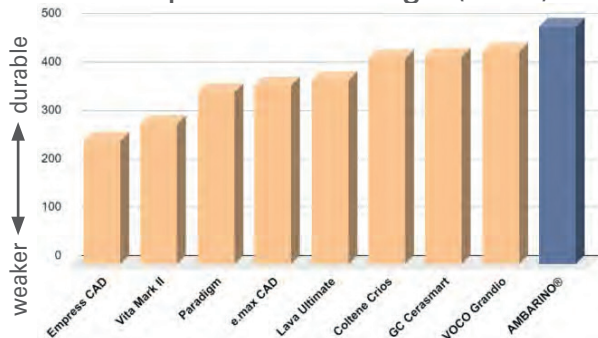


AMBARINO® High-Class is More Durable

Compressive strength estimates the durability of a material when supported underneath by an implant or tooth structure, used to determine how a restoration will perform long term under tensile and shearing forces while clenching or chewing.

AMBARINO® High-Class is a more durable material compared to other ceramics, composites and hybrid materials. Mastication tests, simulating 1.2 million chewing cycles, illustrate that the material will wear well long term without fracturing or chipping.

Compressive Strength(MPa)

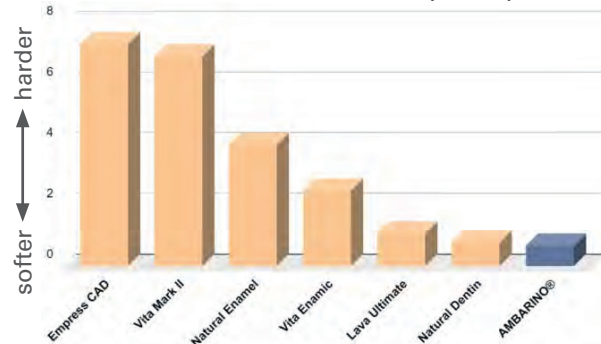


AMBARINO® High-Class is Less Brittle

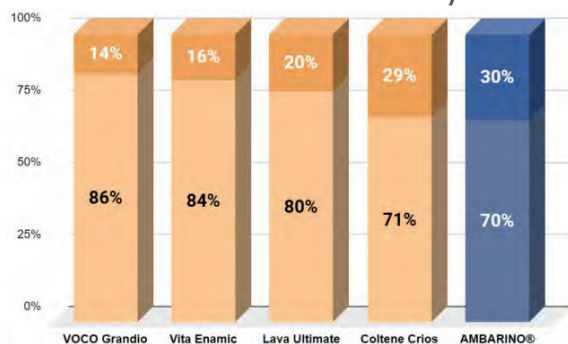
Vickers hardness illustrates how hard or brittle a dental material is compared to natural tooth structures. Ceramics are harder than enamel, which sometimes results in an undesirable clacking or chopping sound and feeling when biting or chewing.

AMBARINO® High-Class is softer than natural dentin and other milled hybrid and ceramic dental materials, making the restorations more pliable, gentle and forgiving, both feeling better and sounding better for a high quality patient experience.

Vickers Hardness (GPa)



Ratio of Ceramics to Polymer



AMBARINO® High-Class is a Perfect Blend

The challenge of developing a perfect hybrid dental material is to find that goldilocks zone with the most ideal combination of mechanical and esthetic characteristics from the blended materials.

AMBARINO® High-Class is manufactured in a proprietary process using the most modern polymers and aesthetic glass filler materials available. The higher polymer content results in restorations that are more durable and elastic compared to other hybrids, making them particularly ideal for implant cases.

Why AMBARINO® High-Class?

