

SHADED DISCS AND CUBES FOR CAD-CAM SYSTEMS

MADE OF HIGH-INTEGRITY POLYMERS FOR LONG-LASTING PROVISIONAL PROSTHESES
RESISTANT TO BACTERIAL COLONIZATION



EN INSTRUCTIONS FOR USE - *Carefully read instructions before using the product*

DESCRIPTION OF THE PRODUCT

Shaded discs and cubes are made of highly integrated and highly resistant polymers. Cadmium-free. Its components make them resistant to bacterial plaque, zero-degree cytotoxicity and extremely performing from a clinical, biological and aesthetical point of view. Sintodent has passed all the biocompatibility tests required by current legislation for Class Iia medical devices and the international standard UNI EN ISO 10993 (biological evaluation of medical devices) specifically: cytotoxicity, irritation and sensitisation.

PACKAGING

Cad-Cam shaded disc for provisional prosthesis

Available sizes: diameter 98,5 mm – thickness 15 and 20 mm.

Colours: A1 - A2 - A3 - A3,5 - C2 - D3 – Transparent.

CAD-CAM shaded Cerec cubes for provisional prosthesis

Available sizes: 40x19x15 and 55x19x15,5 mm.

Colours: A1-A2-A3-A3,5-C2-D3 – Transparent.

CAD-CAM pink disc for removable prosthesis

Available sizes: diameter 98,5 mm – thickness 25 and 30 mm.

Colours: slightly veined – slightly veined K - slightly veined IV

Only available in individual packaging.

TECHNICAL SPECIFICATIONS

Tensile stress: 28,3 ± 3,8 MPa	Minimum thickness: 1,2 mm (0,7 mm for pre-filings provisional)
Compression stress: 600 MPa	Minimum connection thickness: anterior 9 mm ²
Flexural stress: 67,5 ± 15,3 MPa	Minimum connection thickness: posterior 16 mm ²
Hardness stress: 17,5 ± 0,5 Vickers	Wear resistance: 15 times higher than a traditional polymer

INDICATIONS

PMMA Sintodent shaded discs and cubes, resistant to bacterial colonisation, are suitable for long-term therapeutic temporary prosthesis; bridges and crowns; Maryland type glued prosthesis; milled bar cemented or screwed; splint or therapeutic bites. With pink discs it is possible to create bases for removal dentures.

RECOMENDATIONS

- It is important to treat the surfaces of the product in contact with cement with 90 microns sandblasting and a pressure of 2 atm. Blow off without steam after sandblasting.
- Where necessary, it is advisable to rebase dentures, with Sintodent polymer and monomer, after sandblasting with the above parameters.
- All cements made for this purpose can be used for temporary fixation of the provisional. Avoid cement with eugenol. Use composite cements or vitro ionomer cements for a longer-lasting fixation.
- To reduce the risk of detachment of the prosthesis from the abutments, it is recommended to make more conical abutments and to perform a double relining.
- If a CEREC device is used, we recommend using the following programs:
 - VITA CAD – monocolour team CT40 with blocks 40x19x15 mm
 - VITA CAD – monocolour team CT55 with blocks 55x19x15,5 mm
- Regarding milling additive, we recommend using 2 ml product per litre of water. For CEREC only we recommend a dilution of 5 ml per litre of water.
- For dry milling, it is recommended to adjust the CAD-CAM device so that the path of the milling cutter and the number of spindle rotations do not exceed 80% of the machine potential.
- Since the disc is produced in different shades, the project for choosing the color shade of the artefact is of major importance (see Figure 1).



Figure 1. Position of the artefact inside the disc.

- To achieve the best results, the product must not be overheated by the tools when polishing.

PRECAUTIONS

- Wear personal protection equipment
- Keep the powder of the product away from eyes
- Wash hands thoroughly after use
- Do not smoke, eat or drink while handling the product
- Do not swallow the product
- The importance of wearing the protective mask during the grinding process is emphasized

SIDE EFFECTS

zWith proper processing and use of the multi-layer CAD CAM SINTODENT discs and blocks, unwanted side effects are highly unlikely. However, possible episodes of individual hypersensitivity to methacrylate or skin irritation during the processing of powders cannot be excluded.

STORAGE

Store in dry place away from light. Store the product at a temperature below 40°C/104°F. Do not dispose of waste products through the sewer system. Keep out of reach of children. Only suitable for professional use.

This product complies with the requisites of the relevant directive of the Council of the European Union. The declarations of conformity to the props are deposited with SINTODENT SRL, via Castelbottaccio 22, 00131 Rome, Italy.

Sintodent discs and blocks for Cad Cam is a medical product of class IIa, compliant with directive 93/42/CEE.

Sintodent is an ISO 13485:2016 and ISO 9001:2015 certified company.