

DS3000

Technical Data Sheet



DS3000: High-Resolution Material for 3D Printed Surgical Guides

DS3000 is a photosensitive material specifically designed for the customized production of dental surgical guides using stereolithographic 3D printing.

DS3000 is a Class I CE marked medical device*.

Thanks to its smooth surface finish, high resolution, and dimensional accuracy, DS3000 ensures optimal fit and clinical reliability.

Its transparency and mechanical stability make it ideal for guided surgery workflows based on intraoral digital scans.



**Medical device in Class I according to Rule 5, Annex VIII, EU regulation 2017/745*

Features

- Dimensional Accuracy
- High Resolution
- Smooth Surface Finish
- Transparent
- Durable

Advice for use

DS3000 is compatible only with DWS Dfab dental 3D printers. To ensure optimal mechanical performance, dimensional stability, and safety of the printed surgical guide, the Dcure curing unit must be used, as it performs a hybrid thermal/UV treatment cycle tailored for this material. Always follow the operating instructions provided for the DWS Dfab 3D printer and curing unit. For detailed guidance on design parameters, printing workflow, and post-processing procedures, refer to the official Instructions for Use (IFU).

Technical characteristics of the liquid material

Environmental data for use	22°C - 27°C - max, RH 40% - 60%
Appearance / Color	Liquid / Light yellow, transparent
Density	1,1 g/cm ³
Viscosity	~ 1000 mPa•s at 25°C

Technical characteristics of the printed and cured material

Hardness (ASTM D2240)	86 ~ 89 Shore D
Elongation at Break (ASTM D638)	3 ~ 5 %
Tensile Strength (ASTM D638)	40 ~ 60 MPa
Tensile Modulus (ASTM D638)	> 1700 MPa
Flexural Strength (ASTM D790)	> 100 MPa
Flexural Modulus (ASTM D790)	> 2000 MPa
HDT (ASTM D648)	49 ~ 62°C @ 1.81 MPa

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Restrictions of use and warnings

DS3000 is a medical device intended exclusively for use by qualified professionals (dentists and dental technicians). For detailed information on correct use - including application methods, precautions, contraindications, and safety warnings - please refer to the official Instructions for Use (IFU) provided by the manufacturer.

Contraindications

Do not use the device in patients with known allergies or hypersensitivity to methacrylates. Refer to the IFU for the complete list of contraindicated applications.

Precautions and protective measures

The liquid material may cause skin sensitization and is harmful to aquatic life. Use nitrile gloves and protective goggles during handling.

Information for orders

CODE	PRODUCT
10200458	DS3000, DLT, SET 5

Once polymerized, the solid material is not classified as hazardous.

Refer to the Safety Data Sheet (SDS) available at www.dwssystems.com for detailed safety information.

Storage

Store at 5–30°C in a dry place, away from direct sunlight and heat sources. Do not use after the expiry date indicated on the label.

Disposal

Dispose of liquid material and contaminated containers in accordance with local regulations.

Cured material can be disposed of as non-hazardous industrial waste.

Refer to the IFU and Safety Data Sheet (SDS) at www.dwssystems.com for detailed disposal guidance.



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This document is reserved for healthcare professionals as it contains information on medical devices that may create situations of danger to the health and safety of the patient if not correctly read, understood and applied by a professional