



## BIOCOMPATIBLE RESIN FOR DENTAL APPLICATIONS

DS 3000 is a biocompatible resin in Class I expressly developed for the production of highly precise surgical guides and for all those medical applications that require a limited in time contact with the body. It works directly from intraoral digital capture devices, as a replacement of the traditional physical ones.

## ADVICE FOR USE

DS3000 material can be used in DWS 3D printers like DW 020D, DW 028D, DW 029D, XPRO S, XPRO Q.

It can also be used in XFAB series, in LFAB, in DFAB Desktop and Chairside.

The polymer is to be considered in Class I as provided by the Rule 5, Annex IX, Dir.93/42/EEC.

## FEATURES

- Biocompatible
- Smooth Surface
- High Resolution
- High Accuracy
- Durable
- Transparent

## TECHNICAL CHARACTERISTICS OF THE LIQUID MATERIAL

|                              |                                   |
|------------------------------|-----------------------------------|
| Environmental Values for Use | 22°C - 27°C - max, RH 40% - 60%   |
| Appearance / Colour          | Liquid / Light yellow transparent |
| Density                      | 1,01 g/cm <sup>3</sup>            |
| Viscosity                    | 300 ~ 700 MPa•s at 25°C           |

## TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

|                            |                 |
|----------------------------|-----------------|
| Surface Hardness (Shore D) | 86 ~ 89         |
| Elongation at Break (%)    | 2 ~ 5           |
| Tensile Strength (MPa)     | 15 ~ 60         |
| Tensile Modulus (MPa)      | 1750 ~ 2750     |
| Flexural Strength (MPa)    | 80 ~ 130        |
| Flexural Modulus (MPa)     | 2000 ~ 3000     |
| HDT @ 1,81 MPa             | 49 ~ 62         |
| Application / Use          | Surgical Guides |

Technical specification subject to change without notice. This document contains informative addressed to healthcare professionals as it deals with information that may lead to serious damages for patient's health and safety if not properly understood and duly executed. Regulations under the Italian law (Legislative Decree dated February, 23rd 2006, Legislative Decree no. 219/2006 and in general by Legislative Decree no. 46/97 as amended by Legislative Decree no. 37 dated January, 25th 2010).

## DWS srl

Via della Meccanica 21 - 36016 Thiene (VI) - Italy  
T: +39 0445 810810 - E: info@dwssystem.com

