

concept process control

The control of the prostheses after the sintering helps preventing manufacturing defects enhancing efficiency and quality of the processing decreasing overall costs with a better satisfaction of clients.

MICROCHECK in U.V. LIGHT with FLUORESCENT LIQUID

To detect the finest microcracks, difficult to detect even under the microscope.



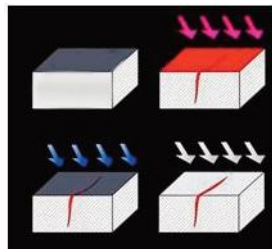
This technique is based on capillary phenomenon and on specific physical characteristics of liquids such as surface tension and viscosity in order to detect surface defects on material which are not porous on surface, like sintered Zirconia, alloys, etc.

Sintering defects (shrinking cracks, porosities), manufacturing defects (hardening or welding cracks), service defects (fatigue or stress corrosion cracks) can be detected.

The sensitivity of the examination depends on the penetrating power of the liquid. The penetrating liquid of MICROCHECK used by Concept is water-based and it is fluorescent with very high penetration capacity, even in the finest cracks.

The Microchek set includes:

- Device with U.V. lamp
- Support for Becker
- 2 Beckers
- Clamp
- Fluorescent liquid



Diffusion by capillarity allows the propagation at any point, even difficult to access, where there is a surface discontinuity.

Thanks to the high luminance contrast which would arise, defects will be perfectly visible.

INSTRUCTIONS FOR USE

- 1** Dip the sintered piece in the fluorescent liquid for 4/5 minutes (minimum 3 min.)
- 2** Rinse well with water in order to remove the liquid left on the surface
- 3** Dry well
- 4** Place the piece under the U.V. lamp. Possible micro-cracks or sintering defects will be seen.

