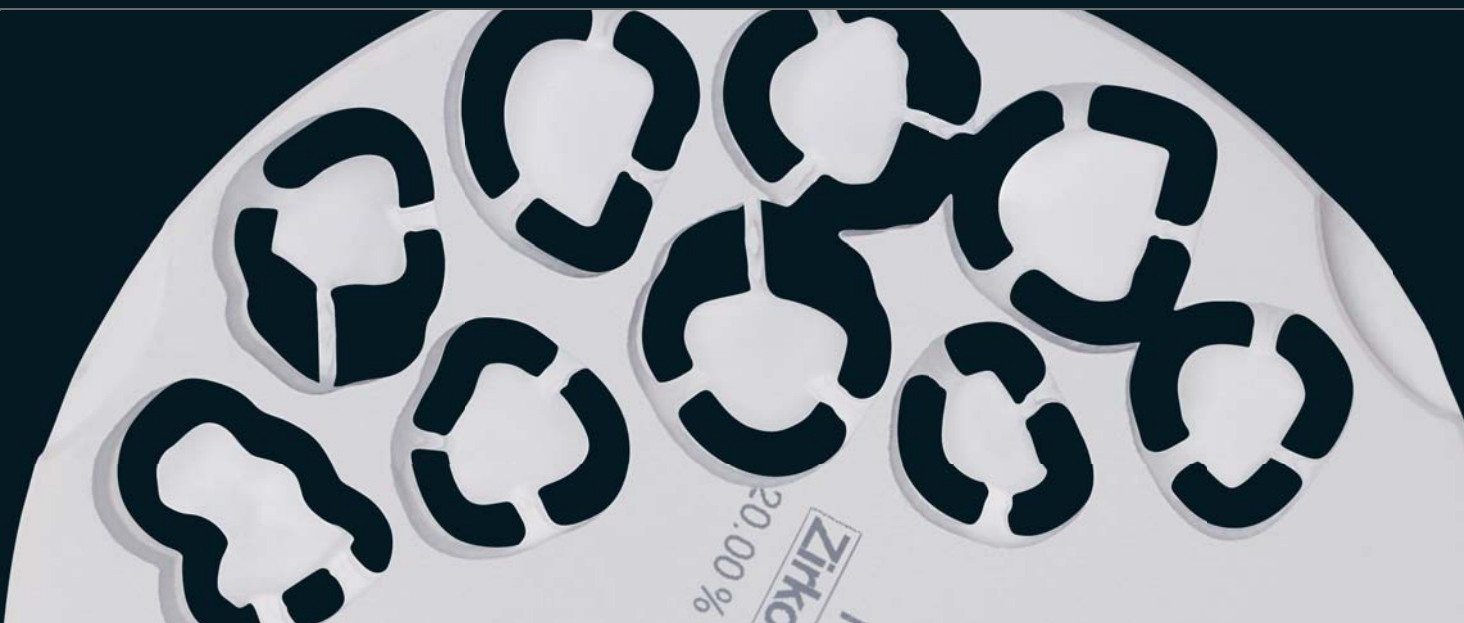


Zirkonzahn®

Human Zirconium Technology



PRETTAU® ANTERIOR®



MINIMALLY INVASIVE FULL VENEERS MADE OF PRETTAU® ANTERIOR®

The patient was unhappy with her smile and desired a restoration of her upper anterior teeth of 14–24, as they exhibited discolorations. Moreover, in the molar 16, due to caries, an inlay was required.

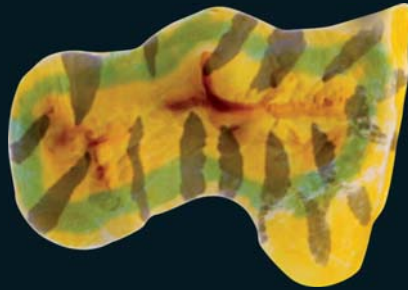
Based on the casts submitted (one with the initial situation and one with a modified form of the dentist's proposal), a first version of the veneers was fabricated in Temp Basic resin, guiding the clinician's minimally invasive preparation. Two copies were made of the veneers: one to assist in preparing the teeth and one to be used as a provisional restoration.

Following minor adaptations, the laboratory received the prepared situation in model form. To fabricate the veneers, the models were re-scanned with the S600 ARTI scanner, followed by generating a virtual wax-up. Following an analysis of the models, it was decided to use veneers made of Prettau® Anterior®, as the treatment situation called for a solution that was highly esthetic but at the same time extremely stable.

Prettau® Anterior®, the new and highly biocompatible zirconia material made by Zirkonzahn, has twice the flexural strength of lithium disilicate (670 MPa; School of Dental Medicine, University of Pennsylvania). Although the name Prettau® Anterior® suggests that the material has been developed for anterior tooth restorations, it can also be perfectly used for monolithical restorations in the posterior area. For this reason, also the inlay was fabricated in the same material.

Following the production of the definitive veneers in the M5 milling unit, finishing with various trimming burs and finishing stones, and staining with Colour Liquids Prettau® Anterior® Aquarell, the object was sintered in the Zirkonofen 700 Ultra-Vakuum sintering furnace. The veneers were then tried on the cast and received their final characterization using ICE Zirkon stains 3D by Enrico Steger and 3D Base Glaze.





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Inlay and veneer made of Prettau® Anterior®, stained with ICE Zirkon Malfarben 3D by Enrico Steger

HUMAN ZIRCONIUM TECHNOLOGY

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All information is subject to change. Errors and omissions excepted. Version: 11/06/2015