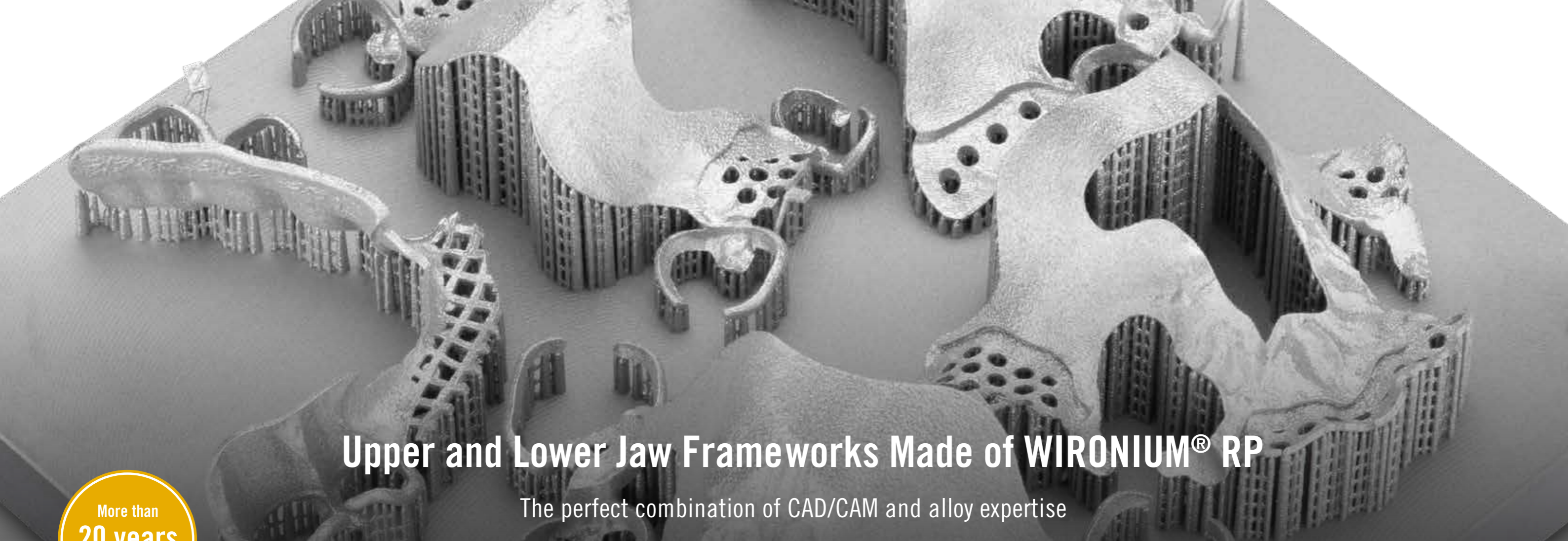




SLM
made

REMOVABLE PARTIAL DENTURE FRAMEWORKS MADE OF WIRONIUM[®] RP

The perfect combination of CAD/CAM and alloy expertise



Upper and Lower Jaw Frameworks Made of WIRONIUM® RP

The perfect combination of CAD/CAM and alloy expertise

More than
20 years
of SLM expertise

The CAD/CAM processing solution: Selective Laser Melting (SLM)

- 3D printing with metal powder – developed and patented by BEGO for the dental branch
- CAD data is used to control a laser, which melts metallic powder layer by layer to build up the frameworks
- Offers very good quality in the production of individual, complex metal frameworks



The alloy: WIRONIUM® RP

- Non precious metal alloy for the additive production of removable partial denture (RPD) frameworks
- Further development of the casting alloy WIRONIUM®, which has been proven millions of times
- Specially developed for the digital production of dental RPD frameworks using the Selective Laser Melting process
- Biocompatible and corrosion resistant
- Approval as a class IIa* medical device is proof of our claim to comprehensively qualify our materials for dental use

Product details

Chemical composition in %

Co 66.2 · Cr 28.2 · Mo 5.5 · N <1

Physical material data

Density	8.5 g/cm ³
Modulus of elasticity	235 GPa
0.2 % Elongation limit (R _{p0.2})	800 MPa
Tensile strength (R _m)	1,300 MPa
Ductile yield (A5)	13 %
Hardness (HV10)	395

Accessories

Availability	Contents	REF
Laser wire, Wiroweld Ø 0.35 mm, 2 m – 1.5 g	1 piece	50003
Laser wire, Wiroweld Ø 0.5 mm, 1.5 m – 2 g	1 piece	50005
Cobalt-chrome solder	1 piece	52520
Flux, Minoxyd	1 piece	52530

* Class IIa medical device as defined by Directive 93/42/EEC.
Pictures and illustrations are exemplary. Colors, symbols, design, and information on the labels and/or packaging shown may differ from reality.

The Product Highlights at a Glance

REAL. PERFECT. FITTING.

- Industrial production process with heat treatment adapted to the alloy ensures an above-average fit of SLM-fabricated RPD frameworks for upper and lower jaws – even in complex cases



REAL. GOOD. ACTIVATION.

- High ductility of the material allows activation of the clasps as with cast components and thus a comfortable insertion and removal of the RPD
- High fatigue strength of the clasps due to homogeneous and pore-free material structure

REAL. EFFICIENT. SOLUTION.

- High efficiency and design freedom through digitization of conventional workflows (CAD design and CAM production)
- Sustainability: Significantly more resource-efficient work and lower costs compared to other manufacturing technologies such as milling

REAL. SUPER. SHINY.

- Excellent polishing properties, comparable to those of cast components
- On request with high-gloss polish for minimal reworking in the laboratory



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