

A circular logo with a purple border. Inside, the number '90' is in a large, colorful font (blue, green, orange). Below it, the word 'years' is in a smaller, light blue font, and 'remanium' is in a larger, light blue font.

90
years
remanium®

The logo for remanium LMF140 powder. It features the word 'remanium' in a light blue font, followed by 'LMF140 powder' in an orange font. To the right is a stylized orange 'R' logo.

remanium®
LMF140 powder

remanium® LMF140 powder

140 years of expertise: experience meets laser melting

High-performance CoCr powder



Dentaurum is extending its competence in materials with the addition of remanium® LMF140 powder for additive manufacturing. Based on 140 years' experience in the field of dentistry, remanium® LMF140 powder is a material that has been carefully crafted to fulfill the demands of modern laser metal fusion processes.

The result: a CoCr powder containing molybdenum that can be used daily in the dental laboratory economically – developed, quality-assured and approved for partial dentures and the firing technique.

Product advantages



Material and alloy quality

- Decades of experience in powder metallurgy in dental prosthetics and orthodontics
- Universal powder for standard laser melting units
- CoCr alloys containing molybdenum with a high level of corrosion resistance for reliable clinical application



Optimum powder and particle properties

- Very good flowability thanks to targeted grain distribution (15 µm–45 µm)
- Quick layering rates shorten the process
- Powder processing and return are stable thanks to low tendency to agglomeration
- Balanced particle morphology for dense material structure and homogeneous microstructures



Application and processing quality

- Highly suitable for partial dentures with qualities that have been tested for clasp-retained constructions
- High level of ductility for safe processing and high load capacity



Prosthetic advantages

- Firm bond when veneering crowns and bridges
- All prosthetic work can be produced simultaneously on one build plate

Heat treatment



- Targeted adjustment to material properties by means of optimized temperature/time combination (800 °C / 1472 °F / 40 mins)
- Short post-treatment times save time in the overall process, increasing efficiency
- Increased service life of gas boxes due to low thermal stress
- Low energy input for an efficient process which conserves resources

remanium® LMF140 powder

Universal dental alloy based on CoCr for firing and partial denture technique, Type 5.

Composition (% by mass)

Co	Cr	Mo
65.5	28.5	6.0

Other elements < 1%: Mn, Fe, W, Si, N. This product contains cobalt. It contains no nickel, beryllium, lead, and cadmium.

Veneering ceramic: We recommend ceraMotion® Me as a metal ceramic

Technical data

Yield strength*	$R_{p0.2}$	800 MPa
Tensile strength*	R_m	1.250 MPa
Hardness*	H	395 HV10
Elongation at rupture*	A_5	12 %
Modulus of elasticity*	E	235 GPa
Density	ρ	8.4 g/cm ³
Solidus temperature	T_s	1.390 °C / 2534 °F
Liquidus temperature	T_L	1.430 °C / 2606 °F
CTE (25 °C – 500 °C / 77 °F – 932 °F)	α	14.8 x 10 ⁻⁶ K ⁻¹

A laser melting machine of the type Zonelab 2Create was used for the production of test specimens. The layer thickness was 30 µm.

* Variations of ± 10% are possible depending on the batch.



In 2026, we at Dentaurum are proud to be celebrating an extraordinary success story: Dentaurum has been your loyal companion in the dental industry for 140 years. Founded in 1886, we stand worldwide for innovation, precision and enthusiasm for dentists, dental technicians, orthodontists and implantologists. We are the oldest dental company worldwide that has existed continuously. We have been in the dental industry since the first day – and our company is still family-owned.



Learn more:
dentaurum.com/140-years-celebrate



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