



Mediloy[®] RPD

Mediloy[®] S-Co

Partners in Progress



Mediloy® RPD

THE SPECIALIST POWDER



- **UNIQUE.**

Only powder in the market that is specifically developed for RPD frameworks. Powder has WIRONIUM®-like properties, balancing a strong major connector with high clasp elasticity.

- **UNIQUE.**

Only powder in the market that indicates possible use for surgical guides.

- **TRUSTED.**

Used to print >100,000 RPD frames every year in BEGO's own production facility.

- **EFFICIENT.**

Heat treatment for only 45 min at max. 1,472 F.

- **SAFE.**

Best possible allergy safety due to biocompatibility and corrosion resistance – free of nickel, cadmium and beryllium.

Mediloy[®] S-CO & THE GENERALIST POWDER



- **VERSATILE.**

Approved indications: crown & bridges, removable partial dentures, implant prosthetics, orthodontic appliances.

- **TRUSTED.**

Used by labs around the world for additive manufacturing of crowns and bridge frameworks.

- **RELIABLE.**

Excellent flowability during the printing process due to homogeneous particle shape and grain distribution.

- **EFFICIENT.**

Heat treatment for only 45 min at max. 1,472 F.

- **SAFE.**

Best possible allergy safety due to biocompatibility and corrosion resistance – free of nickel, cadmium and beryllium.

PHYSICAL MATERIAL DATA

Product details

Alloy features	Mediloy® S-Co	Mediloy® RPD	Requirements ASTM F-75
Standards	ISO 22674 & ISO 9693	ISO 22674	ASTM F-75
Particle size [µm]	10-45	10-45	10-45
Particle shape	round/spherical	round/spherical	round/spherical
Type acc. to ISO 22674	5*	5*	–
Solidus-/liquidus temperature [°C]	1,390 /1,425	1,380/1,420	–
Density (g/cm ³)	8.6*	8.5*	–
Modulus of elasticity [GPa]	228/238*	235*	–
0.2 % proof strength (MPa)	1,000/755*	800*	> 450
Elongation at fracture A ₅ [%]	8/5*	13*	> 8
Hardness [HV10]	470/425*	395*	–
Colours	white**	white**	white**
CTE 25-500°C, 10 ⁻⁶ K ⁻¹	14.0/13.7**	–	–

Composition in % by mass

Co	63.9	66.2	Balance
Cr	24.7	28.2	27-30
Mo	5	5.5	5-7
W	5.4	–	< 0.2
Si	1	–	< 1
S	–	< 0.1	< 0.25

PARAMETERS AVAILABLE FOR:



* simulated ceramic firings/stress relieving 800 °C

** see BEGO color code

“
BEGO Mediloy® RPD allows me to print RPD Frameworks with the same confidence that I had incasting with WIRONIUM®. My customers appreciate the quality and consistency of the BEGO brand.

”
*Mike Janes,
RPD Department Head at Sakr Dental Arts*



“
Mediloy® RPD has given us the best surface quality and accuracy out of all the brands that we have tested. The amount of flexibility in the clasps without permanent deformation or fracture is our biggest consideration for using Mediloy® RPD.

”
*Martin Esterhuizen,
Removable & Ortho CAD/CAM Supervisor
at Oral Arts Dental Laboratories*



“
Switching to BEGO's Mediloy® RPD powder has been a game-changer for our SLM-printed partial frames. After struggling with inconsistencies from other powders, we now produce top-tier, highly reliable restorations with ease. The team at BEGO has been fantastic to work with – always supportive and knowledgeable.

”
*Reed Nunnally,
President at Derby Dental Lab*



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