

remanium® segura

CE 0483

Composition (Percentages by mass)

Co	Cr	Mo	W	Si	Ta
58	30	3	5.5	1.5	1.25

Additional elements less than 1 %: N

Technical data (ISO 9693)

Yield strength $R_{p0.2}$ (MPa)	760
Tensile strength R_m (MPa)	940
Modulus of elasticity E (GPa)	211
Hardness (HV ₁₀)	340
Fracture elongation A ₅ (%)	5.3
Solidus T _s (°C / °F)	1329 / 2424
Liquidus T _l (°C / °F)	1385 / 2525
Density g/cm ³	8.6
CTE (25-500 °C/77-932 °F) (K ⁻¹)	14.4 x 10 ⁻⁶
Melting	+++
Casting	+++
Torch melting	+++
Finishing	++
Milling characteristics	++
Ceramic bonding	+++
Polishing	+++
Oxide bake	No
Laser welding	+++
Soldering with CoCr	REF 102-306-00
Investment material	Castorit® all speed Trivest Castorit® super C

+++ = excellent, ++ = very good

Availability

50 g	REF 102-631-00
250 g	REF 102-632-00
1000 g	REF 102-630-00

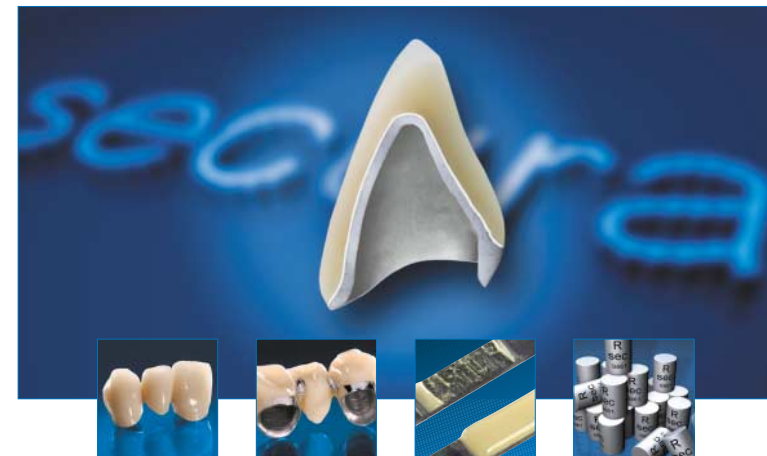
Our dental technical advisors will be pleased to help you with any questions regarding the use of our products.

Customer support +49 72 31/803-410**Fax +49 72 31/803-295****Orders +49 72 31/803-210**

Informationen and instructions for using of the Dentaurem alloys can be found on the internet at

www.dentaurem.com

Date of information: 03/05

**remanium® segura**

Your guarantee for perfect results


DENTAUREM

989-444-20 Printed by Dentaurem Germany 03/05


DENTAUREM



Excellent metal-ceramic bond strength

Highest degree of reliability for technician, dentist, and patient

The first-class melting and casting characteristics of this alloy are the basis for perfect castings and excellent metal-ceramic bond strength.



Outstanding melting and casting properties

Safe and easy to use in all casting processes

The clear view of the molten metal, with no spattering or increased slagging, is *remanium® segura's* quality attributes, not just when it comes to vacuum/pressure casting.

Small ingots allow exact portioning of the alloy

Increase your laboratory's profitability

The small 4-gram ingots allow more accurate portioning of the required amount of alloy in the crucible. This will noticeably save money.

remanium® segura – reinforced with mixed tantalum crystals

Allows slender framework structures

The alloy's high mechanical strength is based on the formation of mixed tantalum crystals, allowing the most slender structuring of your framework.

Ideal firing behaviour

New chemical composition

remanium® segura's new chemical composition generates only a thin oxidation layer, creating excellent bond strength between alloy and porcelain, far higher than required by the standard.

Outstandingly good laser welding properties

Free from carbon

Can be joined easily, with good results.

