

remanium® LFC

CE 0483

Composition (Percentages by mass)

Co	Cr	Fe	Mo	Mn
33	30	29	5	1.5

Additional elements less than 1 %: Si, N, C

Technical data (ISO 9693)

Yield strength $R_{p0.2}$ (MPa)	660
Tensile strength R_m (MPa)	950
Modulus of elasticity E (GPa)	200
Hardness (HV ₁₀)	315
Fracture elongation A ₅ (%)	11
Solidus T _s (°C / °F)	1280 / 2336
Liquidus T _l (°C / °F)	1350 / 2462
Density g/cm ³	8.2
CTE (25-500 °C/77-932 °F) (K ⁻¹)	15.9 x 10 ⁻⁶
Melting	+++
Casting	+++
Torch melting	+++
Finishing	+++
Milling characteristics	+++
Ceramic bonding	+++ (LFC) ¹
Polishing	+++
Oxide bake	No
Laser welding	+++
Soldering with CoCr	REF 102-306-00
Investment material	Castorit® all speed Trinvest Castorit® super C

+++ = excellent, ¹LFC = Low Fusing Ceramics**Availability**

50 g	REF 102-641-00
250 g	REF 102-642-00
1000 g	REF 102-640-00

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.dentaurum.com

Date of information: 03/05



remanium® LFC
Simply versatile. Simply good.



One dental alloy, numerous applications

Perfectly matched to all LFC ceramics

The high mechanical strength makes it ideal for use in crown and bridgework and for fixed/removable appliances. The CTE value is adjusted to suit low-fusing porcelains, providing good metal-ceramic bond strength.

Cost effectiveness and the highest product quality

The alternative to expensive precious metal alloys

This high quality chrome cobalt alloy provides dentists and laboratories with reliability at an attractive price.

Outstanding melting and casting properties

Safe for use in all casting processes

Because of its new composition *remanium*® LFC possesses exceptional melting and casting properties when processed with any typical laboratory casting machine. It is versatile in use.

Simple and reliable processing

No change to your familiar working habits

remanium® LFC is fabricated to the highest degree of purity through strand casting, and is easily trimmed, polished and milled.

Excellent laser welding properties

For perfect laser welding results

Easily joined, with good results. Compatible laser welding wire is included in the assortment.

Reliability for dentist and patient

High corrosion resistance

All *remanium*® chrome cobalt alloys are as corrosion resistant as precious metal alloys. They contain no nickel and are free from beryllium.

