



ecoNEM cast ecoNEM classic ecoNEM nova

With three dental alloys free of precious metals Heimerle + Meule takes account for the demand for alloys which are free of extra charge. Of course, during development of these alloys, the very same high standards had been applied as for dental alloys made of precious metals.

Questionable alloy components as nickel and beryllium had deliberately been cut out. All ecoNEM alloys show excellent corrosion resistance, are of excellent bio-compatibility and do not cause any membrane irritation or allergic sensitisation. In regard to aesthetics as well as to processing of these alloys, the latest metallurgical insights had been realised. Because of the very low carbon content, all ecoNEM alloys can be easily laser treated. The melting and casting characteristics are outstanding.

ecoNEM cast

Model cast alloy on cobalt basis with spring hardness

Perfect for creation of abutments and telescopes as well as for tertiary constructions within the implant technique. The good physical-technical characteristics of ecoNEM cast allow delicate model cast constructions.



ecoNEM classic

Cobalt/chrome alloy

The alloy at reasonable price, free of nickel and beryllium with an average CTE value of 14.1 $\mu\text{m/mK}$ (20 – 600 °C) for alloy bonding of traditional ceramics without oxide firing circle as for example INSPIRATION.

ecoNEM nova

Cobalt/chrome alloy

The star among the nickel- and beryllium-free alloys. With the for corrosion resistance indispensable element molybdenum ecoNEM offers an user-friendly diamond penetrator hardness of 285 HV10. Processing and polishing is perfectly simple. Due to the low CTE value of 14.1 $\mu\text{m/mK}$ (20 – 600 °C), ecoNEM nova can be excellently bonded with traditional ceramics. It is extremely firing resilient. When applying INSPIRATION, neither oxide firing circle nor long-term cooling is required.



ecoNEM cast model cast alloy on cobalt basis	7390 3 001
minor quantity in sheet metal can, 70 g	7390 3 101
ecoNEM classic cobalt/chrome alloy	7391 3 001
minor quantity in sheet metal can, 70 g	7391 3 101
ecoNEM nova cobalt/chrome alloy	7392 3 001
minor quantity in sheet metal can, 50 g	7392 3 101

Packaging units in plastic cans of 250 g, 500 g, 1000 g.

Alloys	mass contents in %													diamond penetrator hardness HV 10/30	average linear CTE $\mu\text{m/mK}$ 20-600 °C	melting interval °C	casting temp. °C
	Co	Cr	W	Mn	Nb	V	Mo	Si	C	Fe	Ni	Be					
Model cast alloy on cobalt basis with spring hardness																	
ecoNEM cast	63	29	1	0.6	–	–	6	0.4	< 0.2	0.1	–	–	< 400	–	1260-1350	1470	
Cobalt/chrome alloy																	
ecoNEM classic	61	28	8.5	0.25	–	–	–	1.65	< 0.1	< 0.5	–	–	285	14.1	1320-1420	1470	
ecoNEM nova	60	25	9	< 1	2	1	1	1	0.1	< 1	–	–	285	14.1	1320-1420	1510	