

## PLATINOR<sup>®</sup>, AUROPLADENT<sup>®</sup>, ECONOR<sup>®</sup>



### Controlled quality

Each melted alloy is analysed batch by batch with regard to its chemical composition and purity and the results are documented. This guarantees consistent quality on the highest level. The analysis is carried out using spectroscopic methods (ICP = Inductive Coupled Plasma, AAS = Atom-Absorption-Spectroscopy).

Analysis of the thermal properties, the strength and hardness, as well as structure analysis complete the test procedure. Batch numbers ensure traceability.

### Certified QM Systems



Dental alloys are subject to the requirements of the Medical Products Regulations (MPG = German Law) and the European Directives 93/42/EWG on medical products. With the high quality standard and the proven biocompatibility of their dental alloys, Heimerle + Meule meet these most stringent regulations. Of course, all dental alloys by Heimerle + Meule have the CE mark which is required for medical products within the European Union.

The quality management system for development, production, and sale of dental alloys is certified in accordance with DIN EN 46001 for medical products, while the whole-company quality management system corresponds to DIN EN ISO 9001.

Precious metal dental alloys																
Alloys	mass volume in % (x <= 0.1%)												melting interval °C	working temp. °C	colour	
	Au	Pt	Pd	Ir	Ru	Ag	Cu	Zn	Sn	In	Mn	Ni				
<b>Solders for bonding alloys according to DIN EN ISO 9333</b>																
PLATINOR <sup>®</sup> AM-W-Lot	66.0	–	11.0	–	–	18.0	1.5	1.5	–	2.0	–	–	1020 – 1130	1090	white	
PLATINOR <sup>®</sup> AM-Lot	80.0	–	7.5	–	–	8.0	3.9	0.6	–	–	–	–	1040 – 1130	1070	yellow	
PLATINOR <sup>®</sup> CPF-Lot 1	64.0	0.4	–	0.1	–	34.9	–	–	–	0.6	–	–	1020 – 1040	1030	yellow	
PLATINOR <sup>®</sup> AM-L-Lot	62.0	–	0.9	x	–	36.0	–	–	–	1.0	–	–	1010 – 1040	1025	yellow	
PLATINOR <sup>®</sup> APF-Lot	62.0	1.0	–	x	–	36.0	0.5	–	–	0.5	–	–	1000 – 1040	1010	yellow	
PLATINOR <sup>®</sup> M-Lot 1	60.0	0.5	–	0.1	–	35.8	–	1.8	1.8	–	–	–	940 – 980	950	yellow	
PLATINOR <sup>®</sup> M-Lot 910	88.7	2.0	–	0.1	–	4.0	–	5.2	–	–	–	–	850 – 920	910	yellow	
PLATINOR <sup>®</sup> M-Lot 2	76.0	2.9	–	0.1	–	10.0	6.0	5.0	–	–	–	–	840 – 880	880	yellow	
<b>Solders for casting alloys according to DIN EN ISO 9333</b>																
PLATINOR <sup>®</sup> CPF-Lot 2	73.0	0.5	–	x	–	12.5	–	14.0	–	–	–	–	690 – 720	710	yellow	
PLATINOR <sup>®</sup> PF-Lot 1	74.0	0.9	–	0.1	–	12.0	7.0	6.0	–	–	–	–	800 – 850	850	yellow	
PLATINOR <sup>®</sup> PF-Lot 2	74.0	0.5	–	x	–	11.0	1.0	13.5	–	–	–	–	690 – 730	720	yellow	
PLATINOR <sup>®</sup> CF-Lot 1	55.0	–	4.1	x	–	30.7	–	4.4	2.4	3.4	–	–	800 – 890	840	yellow	
PLATINOR <sup>®</sup> CF-Lot 2	52.0	–	2.6	x	–	35.2	–	4.4	2.4	3.4	–	–	690 – 890	800	yellow	
PLATINOR <sup>®</sup> Lot 1	70.0	0.9	1.0	0.1	–	11.0	7.0	10.0	–	–	–	–	760 – 810	810	yellow	
PLATINOR <sup>®</sup> Lot 2	70.0	0.9	0.5	0.1	–	12.0	4.5	12.0	–	–	–	–	730 – 770	760	yellow	
<b>Solders for soldering of precious metal on Co-Cr-alloys according to DIN EN ISO 9333</b>																
Stahlgold-Lot TS	42.0	–	3.0	x	x	24.4	16.5	4.0	–	7.0	3.0	–	670 – 770	750	yellow	
Stahlgold-Lot NS	79.0	–	–	–	–	–	–	5.5	–	–	–	15.5	890 – 940	920	white	

Form of delivery: solder tape in solder roles of 5 g

Precious metal dental alloys																				
Alloys	mass contents in % (x =<0.1%)																	indications	laser wire*	colour
	Au	Pt	Pd	Ir	Ru	Rh	Ag	Cu	Zn	Sn	In	Ga	Ge	Fe	Mn	Nb	Ta			
<b>High gold content bonding alloys according to DIN EN ISO 9693 and 22674</b>																				
PLATINOR® AM 97	87.0	9.9	–	0.1	–	–	–	–	–	–	3.0	–	–	–	–	–	–	1, 2, 4, 6	•	rich yellow
PLATINOR® AM 88	86.5	11.0	–	–	–	0.5	–	–	0.8	–	0.8	–	–	–	0.1	–	0.3	1, 2, 4, 6	•	rich yellow
PLATINOR® AM 87	86.3	11.5	–	0.1	–	0.2	–	0.1	1.6	–	–	–	–	–	0.2	–	–	1, 2, 5, 6	•	rich yellow
PLATINOR® AM 86	86.0	11.4	–	0.1	–	0.9	–	–	–	–	1.0	–	–	–	0.2	–	0.4	1, 2, 4, 6	•	rich yellow
PLATINOR® AM 85	85.4	12.0	–	x	–	0.4	–	–	1.8	–	–	–	–	0.2	0.1	0.1	–	1, 2, 5, 6	•	rich yellow
PLATINOR® AM 77	77.5	18.9	–	0.1	–	0.5	–	–	2.0	–	–	–	–	0.2	–	–	–	1, 2, 5, 6	•	light yellow
PLATINOR® AM G	72.0	13.6	–	x	–	0.7	10.0	–	3.0	–	–	–	–	0.2	–	–	0.4	1, 2, 5, 6, 7		rich yellow
PLATINOR® AM 1	84.5	9.3	3,1	x	–	–	1.0	0.4	–	0.6	0.8	–	–	0.2	–	–	–	1, 2, 3, 6		yellow
PLATINOR® AM 2	82.0	8.0	6,9	x	–	–	1.0	0.4	–	0.6	0.8	–	–	0.2	–	–	–	1, 2, 4, 6		light yellow
PLATINOR® AM 3	77.0	9.2	9,0	0.1	–	–	1.5	0.4	–	1.0	1.6	–	–	0.2	–	–	–	2, 5, 6	•	white
PLATINOR® AM 78	78.0	9.8	8,1	0.1	–	–	–	–	–	–	4.0	–	–	–	–	–	–	2, 5, 6	•	white
PLATINOR® AM 70	70.0	5.0	18,0	x	–	–	2.1	0.4	–	1.7	2.7	–	–	–	–	–	–	2, 5, 6		white

<b>Gold reduced bonding alloys according to DIN EN ISO 9693 and 22674</b>																				
PLATINOR® AM 4	59.5	0.2	32,3	0.2	–	–	–	0.4	–	4.7	2.6	–	–	0.1	–	–	–	2, 5, 6		white
PLATINOR® AM 5	52.0	–	38.0	–	–	–	–	–	–	–	8.5	1.5	–	–	–	–	–	2, 5, 6	•	white

<b>Palladium based bonding alloys according to DIN EN ISO 9693 and 22674</b>																				
ECONOR® AP 3	2.7	–	80.0	0.1	0.2	–	–	–	–	7.5	5.0	4.5	–	–	–	–	–	2, 5, 6, 7		white
ECONOR® AP 5	5.0	–	77.8	–	0.2	–	7.0	–	–	3.7	–	6.0	0.3	–	–	–	–	2, 5, 6, 7	•	white
ECONOR® U 2	–	–	57.0	0.1	0.2	–	33.0	–	0.3	6.7	2.7	–	–	–	–	–	–	2, 5, 6, 7		white
ECONOR® U 3	–	–	67.4	–	0.1	–	19.5	–	–	9.5	1.0	2.5	–	–	–	–	–	2, 5, 6, 7	•	white

<b>Universal alloys, capable of bonding according to DIN EN ISO 22674 and 9693</b>																				
PLATINORM	73.8	9.0	–	0.1	–	–	9.2	4.4	2.0	–	1.5	–	–	–	–	–	–	1, 2, 5, 6, 7	•	rich yellow
PLATINOR® M 1	69.5	9.1	–	0.1	–	–	13.1	5.7	1.5	–	1.0	–	–	–	–	–	–	1, 2, 5, 6, 7	•	rich yellow
PLATINOR® M 2	75.0	9.0	–	x	–	1.0	12.5	–	2.0	–	–	–	–	–	–	–	0.5	1, 2, 5, 6, 7	•	rich yellow
PLATINOR® M 3	72.3	9.0	–	0.1	–	0.7	14.0	–	3.0	–	0.5	–	–	–	–	–	0.4	1, 2, 5, 6, 7	•	rich yellow
PLATINOR® M 4	73.4	1.4	5.5	0.1	–	–	16.0	–	3.0	0.5	–	–	–	–	–	0.1	–	1, 2, 5, 6, 7	•	yellow
AUROPLADENT® M	58.0	1.9	9.0	0.1	–	–	27.5	–	2.5	–	1.0	–	–	–	–	–	–	1, 2, 5, 6, 7	•	yellow
ECONOR® MG	34.2	2.0	16.0	–	0,1	–	35.9	–	–	–	11.5	–	–	0.3	–	–	–	1, 2, 5, 6, 7		light yellow
ECONOR® ME	26.0	0.5	20.0	x	0,5	–	47.5	–	3.5	1.0	1.0	–	–	–	–	–	–	1, 2, 5, 6, 7		white
ECONOR® M	–	–	39.4	–	0,1	–	54.5	–	3.0	2.0	1.0	–	–	–	–	–	–	2, 5, 6		white

<b>High gold content casting alloys according to DIN EN ISO 22674</b>																				
PLATINOR® TTK	84.5	10.0	–	x	–	0.9	–	–	4.5	–	–	–	–	–	–	0.1	–	1, 2, 5, 6, 7		rich yellow
PLATINOR® I-PF	77.0	1.0	–	0.1	–	–	13.0	8.5	0.2	–	0.2	–	–	–	–	–	–	1, 2		rich yellow
PLATINOR® PDF	72.5	4.5	–	–	–	–	14.0	7.5	1.5	–	–	–	–	–	–	–	–	1, 2, 5, 6, 7	•	rich yellow
PLATINOR® CF 4	69.0	4.0	5.9	x	–	–	17.7	–	3.3	–	–	–	–	–	–	–	–	1, 2, 5, 6, 7	•	yellow
PLATINOR® G 4	69.8	4.0	2.0	–	–	–	13.6	9.1	1.5	–	–	–	–	–	–	–	–	1, 2, 5, 6, 7		rich yellow

<b>Gold reduced casting alloys according to DIN EN ISO 22674</b>																				
AUROPLADENT® CF	53.9	–	10.0	x	–	–	30.0	–	4.0	–	2.0	–	–	–	–	–	–	1, 2, 5, 6, 7		light yellow
AUROPLADENT® H	57.0	–	4.9	x	–	–	27.0	10.0	1.0	–	–	–	–	–	–	–	–	1, 2, 5, 6, 7		rich yellow
AUROPLADENT® O	45.0	–	8.1	x	–	–	33.3	13.0	0.5	–	–	–	–	–	–	–	–	2, 5, 6, 7		yellow

\* Ø 0.3/Ø 0.5 x 200 mm Indications: 1 = Inlays, 2 = MOD-inlays, 3 = middle span bridges, 4 = longer span bridges, 5 = long span bridges, 6 = milling technique, 7 = model casting