



BEGO-GOLD – FOCUSING ON THE ESSENTIALS

Alloy	Bio certificate	Standards ISO	Order No.	Type soft (1) medium (2) hard (3) extrahard (4)	Colour code No.	Composition % by mass (x < 1%)								Other elements (< 1%)	Indications	Density [g/cm³]	Vickers hardness (HV 5)			Elongation limit (R 0,2) [MPa]			Ducile yield (A _{0.2}) [%]			Modulus of elasticity approx. [GPa]	Average grain size [µm]	Melting interval [°C]	Casting temperature approx. [°C]	Preheating temperature [°C]	CTE 25-500 °C (25-600 °C) [10 ⁻⁶ K ⁻¹]	Oxide firing		Laser welding/ Identically welding material available	Solders	
						Au	Pt	Pd	Ag	Cu	Sn	Zn	In				soft	after casting/firing	hardened	soft	after casting/firing	hardened	soft	after casting/firing	hardened							°C	Min. with vacuum		Before firing	After firing
Alloys for conventional ceramics																																				
Bio PontoStar [®] XL	✓	♦	61140	(4)	5	86.0	11.5	-	-	-	-	1.6	x	Rh - Fe	1, 2, 3, 4, 5, 6	18.8	155	215	220	330	500	510	18	7	6	100	20	1045-1100	1270	850	14.2 (14.4)	900	5	✓	✓	♦ PontoStar [®] G solder 1030 °C ♦ BEGO-Gold solder I 810 °C
Bio PontoStar [®]	✓	♦	61104	(4)	5	87.0	10.6	-	-	-	-	1.5	x	Rh - Mn Ta	1, 2, 3, 4, 5, 6	18.8	160	225	235	380	550	560	11	8	6	100	20	1040-1150	1270	850	14.2 (14.4)	950	10	-	✓	♦ PontoStar [®] G solder 1030 °C ♦ BEGO-Gold solder I 810 °C
PontoStar [®] G	✓	♦	61046	(3)	4	85.6	11.4	-	-	-	-	2.3	-	Rh - Fe	1, 2, 4, 5	18.0	130	175	190	225	430	480	13	9	8	92	20	1055-1140	1320	850	14.4 (14.6)	950	10	-	✓	♦ PontoStar [®] G solder 1030 °C ♦ BEGO-Gold solder I 810 °C
PontoStar [®] H	✓	♦	61030	(4)	7	77.6	18.8	-	x	-	-	2.2	x	Ir - Fe	1, 2, 3, 4, 5, 6	18.5	150	220	220	380	520	520	10	6	6	115	20	1080-1180	1320	850	13.8 (14.0)	950	10	-	✓	♦ PontoStar [®] G solder 1030 °C ♦ BEGO-Gold solder I 810 °C
PontoLloyd [®] G	✓	♦	61106	(4)	6	84.1	8.3	4.8	-	-	-	2.7	-	Ta	1, 2, 3, 4, 5, 6	18.1	190	200	210	430	470	495	10	6	3	100	20	1100-1230	1370	850	14.1 (14.3)	960	10	-	✓	♦ PontoStar [®] G solder 1030 °C ♦ BEGO-Gold solder I 810 °C
PontoLloyd [®] P	✓	♦	61087	(4)	8	77.5	9.9	8.9	1.0	x	x	-	1.4	Ir - Fe	2, 3, 4, 5, 6	17.9	175	205	210	470	490	500	7	5	4	110	20	1145-1215	1380	850	13.8 (14.0)	960	10	-	✓	♦ PontoLloyd [®] solder 1120 °C ♦ BEGO-Gold solder I 810 °C
PontoLloyd [®] L	✓	♦	61100	(4)	8	75.0	-	17.9	3.0	-	1.5	-	2.5	Re	2, 3, 4, 5, 6	16.3	150	205	220	350	530	560	26	8	6	110	20	1150-1240	1430	850	14.1 (14.3)	960	10	-	✓	♦ PontoLloyd [®] solder 1120 °C ♦ BEGO-Gold solder I 810 °C
BegoCer [®] G	✓	♦	61097	(4)	8	51.5	-	38.4	-	-	-	8.7	-	Ru - Ga 1,3	2, 3, 4, 5, 6	14.3	190	220	230	475	520	550	19	16	12	125	40	1155-1310	1450-1500	850-950	13.7 (13.9)	960	2-3	-	✓	♦ BegoStar [®] solder 1125 °C ♦ BEGO-Gold solder I 810 °C
BegoStar [®]	✓	♦	61080	(4)	8	54.0	-	26.5	15.5	-	2.4	-	1.4	Ru - Re	2, 3, 4, 5, 6	13.8	205	225	230	460	510	530	21	15	13	113	30	1230-1280	1420	850	14.0 (14.2)	960	10	-	✓	♦ BegoStar [®] solder 1125 °C ♦ BEGO-Gold solder I 810 °C
BegoPal [®] 300	✓	♦	61105	(4)	8	6.0	-	75.4	6.2	-	-	6.3	-	Ru - Ga 6,0	2, 3, 4, 5, 6	11.0	220	240	260	450	520	540	30	28	25	135	35	1175-1320	1390-1440	850-950	13.8 (14.0)	960	2-3	-	✓	♦ BegoStar [®] solder 1125 °C ♦ BEGO-Gold solder I 810 °C
BegoPal [®] S	✓	♦	61086	(4)	8	-	-	57.5	31.5	-	9.0	-	1.9	Ru	2, 3, 4, 5, 6	11.1	210	220	230	400	480	520	10	7	6	118	50	1210-1290	1450	850	14.4 (14.6)	960	10	-	✓	♦ BegoStar [®] solder 1125 °C ♦ BEGO-Gold solder I 810 °C
Alloys for high expanding, low fusing ceramics																																				
BioPlatinLloyd [®]	✓	♦	61125	(4)	4	75.1	7.8	-	14.8	-	-	1.8	-	Rh - Mn Mg	1, 2, 4, 5, 6	16.3	165	205	215	330	490	520	10	6	5	120	25	990-1065	1250	700	16.0 (16.2)	780	10	-	✓	♦ BioPlatinLloyd [®] solder 870 °C ♦ BioPlatinLloyd [®] solder 710 °C
PontoRex [®] G	✓	♦	61016	(4)	4	70.0	9.4	-	13.2	3.0	-	2.0	1.9	Ir - Rh	1, 2, 4, 5, 6	16.2	155	200	220	310	440	450	16	11	9	100	20	910-995	1150	700	16.1 (16.3)	800	10	-	✓	♦ PontoRex [®] solder 880 °C ♦ PontoRex [®] solder 710 °C
PlatinLloyd [®] KF	✓	♦	61025	(4)	4	72.8	2.0	5.7	16.1	-	-	3.0	-	Mh - Rh	2, 3, 4, 5, 6	15.6	155	250	255	330	580	600	18	6	4	120	30	980-1070	1200	700-750	16.2 (16.4)	800	10	-	✓	♦ PontoRex [®] solder 880 °C ♦ PontoRex [®] solder 710 °C
BegoLloyd [®] LFC	✓	♦	61116	(4)	5	62.8	3.0	5.7	25.0	-	-	2.2	1.2	Ru	2, 3, 4, 5, 6	14.6	150	225	225	330	575	575	23	13	6	105	25	985-1060	1250	700	16.4 (16.9)	800	5	✓	✓	♦ BioPlatinLloyd [®] solder 870 °C ♦ BioPlatinLloyd [®] solder 710 °C
AuroLloyd [®] KF	✓	♦	61052	(4)	6	55.0	-	10.0	29.2	-	1.0	1.2	3.5	Ru	2, 3, 4, 5, 6	13.9	150	200	220	315	480	520	18	7	6	106	40	950-1060	1230	700	17.1 (17.3)	800	10	-	✓	♦ PontoRex [®] solder 880 °C ♦ PontoRex [®] solder 710 °C
ECO d'OR	✓	♦	61112	(4)	6	38.1	-	13.0	40.5	-	-	8.0	-	Mn - Ta	1, 2, 3, 4, 5, 6	13.1	-	215	220	-	500	565	-	7	8	114	40	975-1030	1200	800	17.0 (17.4)	800	5	-	✓	♦ BioPlatinLloyd [®] solder 870 °C ♦ BioPlatinLloyd [®] solder 710 °C
BegoStar [®] LFC	✓	♦	61107	(4)	8	x	-	35.0	58.9	-	1.0	4.0	-	Zr - Ru	1, 2, 5, 6	10.8	175	200	-	-	400	-	-	12	-	113	40	1080-1150	1300	700	16.6 (16.8)	780	10	-	✓	♦ PontoRex [®] solder 880 °C ♦ PontoRex [®] solder 710 °C
Alloys for crowns and bridges																																				
InLloyd [®] 100	✓	♦	61120	(2)	2	78.1	3.9	-	15.5	-	-	-	2r4	1, 2	16.5	120	150	150	200	245	245	26	12	12	90	40	935-1005	1100	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C	
PlatinLloyd [®] 100	✓	♦	61020	(4)	3	72.0	3.5	-	13.7	9.8	-	x	-	Ir	2, 3, 4, 6	15.5	155	220	225	340	500	510	40	15	14	95	25	900-940	1050	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
PlatinLloyd [®] M	✓	♦	61009	(4)	4	70.0	5.0	1.0	11.7	10.0	-	1.9	x	Re	2, 3, 4, 6	15.7	190	270	285	440	650	690	25	11	8	98	20	880-940	1020	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
BegoLloyd [®] PF	✓	♦	61041	(4)	4	62.5	4.3	-	22.0	9.1	-	1.9	-	Ir	2, 3, 4, 6	14.5	175	240	245	370	620	640	25	10	9	105	20	870-915	1030	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
BegoLloyd [®] M	✓	♦	61036	(4)	4	65.0	x	3.1	19.1	10.0	-	2.0	x	Ir	2, 3, 4, 6	14.7	155	235	240	350	560	570	50	23	21	102	30	860-940	1050	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
BegoLloyd [®] 60	✓	♦	61037	(4)	4	60.0	0.5	5.5	21.0	10.0	-	2.1	x	Ir	1, 2, 3, 4, 6	14.4	160	260	260	370	600	600	35	20	20	103	30	870-930	1050	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
AuroLloyd [®] M	✓	♦	61054	(4)	5	54.0	1.0	5.0	29.0	8.0	-	1.0	1.9	Ir	2, 3, 4, 6	13.5	190	250	270	350	455	460	12	6	4	107	30	860-920	1100	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
Midigold	✓	♦	61082	(3)	5	49.5	-	3.4	35.0	10.0	-	-	2.0	Ru	1, 2, 3, 4, 6	12.98	120	235	245	225	620	650	15	5	3	93	50	830-920	1030	700	-	-	-	-	✓	BEGO-Gold solder I 810 °C BEGO-Gold solder II 765 °C Pre-flux U Goldsolder 810 °C
Gold-EWL [®] H	✓	♦	61071	(3)	8	2.0	-	27.5	58.5	11.0	-	1.0	-	-	1, 2, 3, 4	11.0	150	180	205	330	750	820	39	7	5	108	30	930-1030	1230	700	-	-	-	-	✓	Gold-EWL [®] solder I 910 °C Gold-EWL [®] solder II 820 °C

CE 0197

BEGO-GOLD alloys and solders are medical devices in accordance with Regulation 93/42 EEC. According to Annex IX, the products are classified in Class IIa.

Standards

- ♦ = ISO 9693 + ISO 22674
- ◆ = ISO 8891

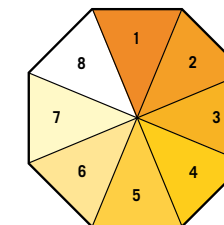
Indications

- (1) = Inlays
- (2) = Onlays
- (3) = Partial dentures
- (4) = Bridges, milled telescopes, bars and attachments
- (5) = Crown and bridge frames for metal ceramics
- (6) = Superstructures

The specified data are standard values. Subject to change.

The BEGO-GOLD Colour code

The areas of colours within the characteristic fields approximately correspond to the intensity of the alloy colours.



You can obtain a detailed table from us (please state Art. no. 82104).