

AURIUM



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5855 Oberlin Drive
San Diego, CA 92121-4718
CUSTOMER SERVICE: 800-645-6110
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DENTAL

ALLOYS

COMPOSITIONS

& PHYSICAL

PROPERTIES

CE 0086

R E S E A R C H U . S . A .



MULTIPURPOSE ALLOYS

ALLOY NAME	TYPE	METAL CONTENT (%)																											
		Au	Pt	Pd	Ag	Ir	Cu	Zn	Sn	In	Ga	Ru	Mn	Ni	Fe	Co	B	Ta	Si	Nb	Re	C	Mo	Rh	Cr	Be	Al	W	Li
AURIUM BIO 422	3/4	72.1	9.2	0	10	<1	4.8	<1	<1	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM ECO 38	4	38	0	17	36	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM YELLOW LF	3	2	0	40	24.85	<1	0	1	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PORCELAIN ALLOYS

ALLOY NAME	TYPE	METAL CONTENT (%)																											
		Au	Pt	Pd	Ag	Ir	Cu	Zn	Sn	In	Ga	Ru	Mn	Ni	Fe	Co	B	Ta	Si	Nb	Re	C	Mo	Rh	Cr	Be	Al	W	Li
AURIUM 224	2	89.5	5.8	1.6	1.2	<1	0	0	<1	<1	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM BIO 301	4	88	9	0	0	<1	0	0	<1	1.5	0	0	0	0	0	0	0	<1	0	0	0	0	0	<1	0	0	0	0	0
AURIUM BIO 405	4	86.5	10.4	0	0	<1	0	1.5	0	<1	0	0	<1	0	0	0	0	<1	0	0	0	0	0	<1	0	0	0	0	0
AURIUM BIO 860Y	4	86	11	0	0	<1	0	<1	0	<1	0	0	1	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0
AURIUM AH	4	86.1	8.5	2.6	0	<1	0	0	0	1.4	0	0	0	0	<1	0	0	<1	0	0	0	0	0	0	0	0	0	0	0
AURIUM BIO 403	4	85.9	11.7	0	0	<1	0	1.5	0	<1	0	0	<1	0	<1	0	0	0	0	<1	0	0	0	<1	0	0	0	0	0
AURIUM BIO 404	4	77.7	19.5	0	0	<1	0	2	0	0	0	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0
AURIUM 3	4	76.6	9.9	9.3	1.2	<1	<1	0	<1	1.7	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 423	4	75	9	0	12.5	<1	0	2	0	0	0	0	0	0	0	0	0	<1	0	0	0	0	0	1	0	0	0	0	0
AURIUM P75	4	75	2	14.8	3	<1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 239	4	74	4	7.6	10.8	<1	0	0	1	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM Y73	4	73.8	8.5	5.4	8.98	0	0	0	1.9	0	<1	<1	0	0	<1	0	0	<1	0	<1	<1	0	0	0	0	0	0	0	<1
AURIUM BIO 720PF	4	72	13.9	0	10.5	<1	0	3	0	0	0	0	<1	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0	0
AURIUM D69	4	69	4.1	1.9	14.5	<1	9.45	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 68M	3/4	68	0	2.95	18	<1	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREBOND 66SF	4	66	0	25.5	0	<1	0	0	0	8.1	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREBOND 65SF	4	65	0	26	0	0	0	0	0	8.65	<1	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM SG	3/4	60	0	3.65	26.95	<1	8.85	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 56	4	55.8	0	4.11	25	<1	13.81	1	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 550	3/4	55	0	9.9	29	<1	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREBOND 54	4	54.2	0	31	4.8	0	0	0	0	9	<1	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM G13	3/4	52.5	0	5.5	30.9	<1	10	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREBOND 52	4	52.5	0	26.9	16	0	0	0	2	2.5	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREBOND	4	51.5	0	38.4	0	<1	0	0	0	8.5	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREFIRE 50	4	50.6	0.2	26.5	17.6	<1	0	0	2.4	2	0	0	<1	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREBOND 500	4	50	0	24.9	19	5.5	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM G14	3/4	46	0	6	39.5	<1	7.47	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 41	4	41.5	0	42.5	8.1	0	<1	0	7.5	0	0	<1	0	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0	0
AURIUM EURO	4	40	0	39.4	10	0	0	0	<1	8.8	1.4	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM D16	2/4	40	0	4.95	45.7	<1	8.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM E	4	32	0	19.9	35.5	<1	0	0	0	12.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 30	4	30	0	44.4	18	<1	0	0	0	4.4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 30 IMPLANT	4	30	0	44.4	18	<1	0	0	0	4.4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM DW	4	20.1	0	19.9	47.9	<1	9.85	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 52+	4	15	0	52.2	21.5	0	0	0	4	6	1	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM 78+6	4	6	0	78.1	3	0	0	0	0	6.5	6	<1	0	0	0	0	0	0	0	<1	<1	0	0	0	0	0	0	0	0
AUROLITE 6	4	6	0	75	6.5	0	0	0	0	6	6	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 61+3	4	3	0	61	23.35	0	0	0	0	10	2.5	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AURIUM W+	3/4	2	0	24.97	68	<1	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREFIRE S	4	1.8	0	75.7	0	0	7.5	0	<1	8	6.3	<1	0	0	0	0	<1	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 2B	4	1.7	0	59.9	26.3	0	0	2	5	5	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUREFIRE PF+	4	1	<1	77	0	<1	10	0	<1	5.5	4.9	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 1C	3/4	0	0	53	38.2	0	<1	<1	7	1	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SILFREE 79	4	0	0	79	0.2	0	8	4.5	0	3	4.9	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 49	4	0	0	49.5	40	0	0	0	0	9	1	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 54B	4	0	0	53.6	37.5	0	0	<1	8.3	0	0	<1	0	0	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0
AUROLITE 55	4	0	0	55	34	0	0	1	3	6	<1	<1	0	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0	0
AUROLITE 61	4	0	0	60.55	28.1	0	0	0	2.5	6.6	2.1	<1	0	0	0	0	0	0	0	0	<1	0	0	0	0	0	0	0	0
AUROLITE 70+	4	3	0	70	9.5	0	0	5	9.8	2	<1.0	<1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 80	4	0	0	80	5	0	0	1	<1	6.5	6.3	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUROLITE 1K	4	0	0	57.9	30	0	0	2	6	4	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CROWN & BRIDGE ALLOYS

ALLOY NAME	TYPE	METAL CONTENT (%)																											
		Au	Pt	Pd	Ag	Ir	Cu	Zn	Sn	In	Ga	Ru	Mn	Ni	Fe	Co	B	Ta	Si	Nb	Re	C	Mo	Rh	Cr	Be	Al	W	Li