10.1 Various Ti Alloys

	Al	Mo	Sn	Fe	Mn	Cu	V	Size (mm) Ø	H
101 P 205	...	15.0	...	0.03	...	...	...	All this	
101 P 230	...	...	...	0.05	...	2.5	...	10.1 Series	
101 P 260	...	...	...	0.05	...	...	...	are	
101 P 315	1.5	...	...	0.05	1.5	...	...	Cast Discs	
101 P 317	5.0	...	2.5	0.2	...	...	...	of size	
101 P 318	6.0	...	...	0.2	...	...	4.0	32 x 8	
101 P 367	6.0	...	...	0.1	...	...	...		

Suitable for use with XRF Spectrometers only.

10.1 Various Ti Alloys (continued)

	Al	Mo	Si	Sn	Zr	Fe	V	Nb	Size (mm) Ø	H
101 P 550	4.0	4.0	0.5	2.0	0.05	0.05	...	...	All this	
101 P 551	4.0	4.0	0.5	4.0	...	0.05	...	...	10.1 Series	
101 P 679	2.25	1.0	0.2	11.0	5.0	0.05	...	...	are	
101 P 685	6.0	0.5	0.3	<0.02	5.0	0.03	...	...	Cast Discs	
101 P 811	8.0	1.0	...	...	...	0.03	10.0		of size	
101 P 829	5.5	0.3	0.3	3.5	3.0	0.03	...	1.0	32 x 8	
101 P 6242	6.0	2.0	0.1	2.0	4.0	0.07	...	...		
101 P 6246	6.0	6.0	0.05	2.0	4.0	0.05	...	...		

Suitable for use with XRF Spectrometers only.

		Al	Mo	Si	Sn	Zr	Mn	Cu	V	Fe	Nb	Cr	W	Ni	C	N	O	H	Size (mm) Ø	H	
CRM	101 M BS T-2a	0.005	0.002	0.002	0.006	<0.003	0.003	(0.001)	<0.002	0.156	...	0.018	<0.002	0.021	(0.007)	(0.0044)	(0.12)	(0.0020)	32 x 12		W
CRM	101 M BS T-4a	0.040	0.0006	0.011	0.005	<0.002	0.003	(0.001)	(0.001)	0.19	...	0.026	<0.002	0.014	0.014	0.005	(0.37)	(0.0027)	32 x 12		
CRM	101 M BS T-5a	6.33	0.004	0.02	0.009	0.003	<0.002	0.0025	4.10	0.170	...	0.013	<0.01	0.012	0.011	0.008	0.190	(0.0025)	32 x 12		
	101 MBS T-13	3.7	1.23	0.03	0.020	(0.001)	0.04	0.021	0.11	2.21	...	3.59	0.38	0.018	0.008	(0.012)	...	...	32 x 12		
	101 MBS T-14	4.94	1.72	0.04	0.03	<0.01	0.02	0.022	0.013	1.9	<0.002	1.98	0.48	0.012	(0.01)	0.006	...	...	32 x 12		
	101 MBS T-15	6.23	3.1	0.02	0.015	<0.002	0.02	0.03	(0.01)	1.02	...	1.02	(0.52)	0.007	0.007	(0.007)	...	...	32 x 12		
	101 MBS T-22	0.004	1.15	(0.02)	0.019	<0.01	2.02	0.04	0.50	1.19	...	1.22	0.51	0.008	0.005	(0.01)	...	...	32 x 12		
	101 MBS T-23	0.003	0.91	<0.01	0.025	(0.002)	3.70	0.012	0.93	0.93	...	0.91	0.87	0.004	0.006	(0.007)	...	...	32 x 12		
	101 MBS T-24	0.002	0.51	(0.01)	0.019	(0.001)	4.7	0.02	1.22	0.54	...	0.54	0.37	(0.007)	0.005	0.006	...	...	32 x 12		
	101 MBS T-26	0.002	0.028	(0.01)	0.025	0.005	0.006	0.037	0.02	0.055	...	0.037	0.57	0.002	0.005	(0.005)	...	...	32 x 12		
CRM	101 MI 174A	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	...	0.15	...	<0.01	...	...	0.009	0.0089	0.30	0.0057	31 x 18		W
CRM	101 F 089	5.97	...	...	...	...	...	...	3.976	...	...	...	...	...	...	...	...	...	40 x 20		
CRM	101 F 090A	(0.074)	0.0488	...	(0.071)	(0.0436)	0.0314	0.0513	(0.057)	0.0563	(0.0492)	0.0533	(0.050)	0.0667	...	...	...	Co 0.0501	40 x 20		

11.1 Cobalt/Cr/W — Alloy Type WI 52

		C	Si	Mn	Ni	Cr	W	Nb	Ta	Fe	Cu	Pb	Sn	Mo	Al	S	N	Others	Size (mm) Ø	H	
	111 X 12667L	...	0.63	0.50	0.60	20.8	10.7	1.56	0.14	1.41	0.11	(0.013)	0.14	0.16	0.02	...	...		40 x 15		C
	111 X 12669J	...	0.71	0.57	0.62	22.04	10.65	2.06	...	1.41	...	...	...	...	...	...	...		40 x 15		
	111 X 12670M	0.01	0.60	0.46	1.13	19.6	10.7	2.36	0.07	1.32	0.06	(0.005)	0.042	0.08	(0.003)	(0.027)	0.008	P (0.012)	40 x 15		
	111 X 12671J	...	0.51	0.61	0.88	20.5	11.8	1.95	...	1.45	...	...	...	...	...	...	...		40 x 15		
	111 X 12672J	0.126	0.78	0.72	0.71	21.8	9.3	1.87	0.09	1.87	0.14	0.01	0.034	0.29	0.27	0.014	...		40 x 15		
CRM	111 X 12673A	(0.005)	0.82	0.52	1.69	19.0	9.75	2.35	0.06	1.70	0.104	(0.003)	0.074	0.086	<0.005	0.022	0.031	P 0.010	40 x 15		

11.2 Cobalt/Cr/Mo — Alloy Type Stellite 8, BS 3531, etc

		C	Si	Mn	Ni	Cr	W	Mo	Fe	Al	Cu	Nb	Zr	P	S	B	N	Others	Size (mm) Ø	H	
	112 X 14936N	0.45	0.23	0.77	1.67	23.00	1.12	4.65	0.39	0.48	...	...	...	...	...	...	...		40 x 15		C
CRM	112 X 14937Q	0.238	1.48	0.85	3.47	24.37	3.17	7.1	1.84	1.20	0.164	0.058	(0.015)	0.0095	0.0069	0.0061	0.11	Sn 0.011	43 x 20		
	112 X 14941M	0.38	0.45	0.14	1.17	26.85	0.54	4.16	0.76	0.03	...	...	...	...	...	...	...		40 x 15		
	112 X 14942M	0.090	1.02	0.46	0.29	28.47	1.67	6.22	1.09	0.18	...	...	...	...	...	...	...		40 x 15		
CRM	112 X 14943E	0.233	0.53	1.18	0.12	32.5	(0.09)	7.53	0.85	<0.01	0.116	(0.063)	...	0.006	0.0137	(0.0034)	0.115	Pb (0.0067)	43 x 20		
CRM	112 X 14944A	0.225	0.71	0.744	0.128	29.24	<0.02	6.29	0.14	<0.01	0.006	<0.01	...	0.0017	0.0040	(0.0004)	0.148		38 x 19		W
CRM	112 MT 074A	0.089	0.59	0.78	0.150	27.12	<0.01	5.47	(0.93)	...	0.005	...	...	0.002	0.002	(<0.001)	0.17		38 x 14		

11.3 Cobalt/Cr/Ni/W — Alloy Type Stellite 31

		C	Si	Mn	Ni	Cr	W	Fe	B	S	P	Size (mm) Ø	H	
	113 X X401G	0.56	1.22	0.20	11.74	25.24	7.09	0.73	0.008	...	...	40 x 15		C
	113 X X402H	0.38	0.32	1.26	9.41	24.86	7.96	2.15	...	0.036	0.045	40 x 15		
	113 X X403G	0.52	0.85	0.69	10.40	25.03	7.82	1.06	0.006	0.022	0.021	40 x 15		
	113 X X404D	0.51	0.75	0.69	10.76	23.7	7.71	1.28	0.001	0.006	0.002	40 x 15		
	113 X X405E	0.48	0.76	0.68	10.79	26.7	7.65	1.30	0.001	0.005	0.002	40 x 15		

11.9 Various Cobalt alloys

		C	Si	Mn	Ni	Cr	W	Mo	Nb	Cu	Fe	Ti	Mg	S	P	N	Others	Typical Alloy Type	Size (mm) Ø	H	
	119 MBS 171B	0.087	0.29	1.90	10.68	20.5	15.1	0.65	0.046	0.035	1.82	...	...	<0.001	0.008	...			35 x 12		W
	119 MBS 172A	0.098	0.37	0.77	23.7	21.85	14.0	0.3	0.09	0.027	1.76	...	...	<0.0005	(0.011)		La 0.045		35 x 12		
	119 MBS 173	0.046	0.61	0.76	0.14	27.5	...	5.62	(0.002)	(0.008)	0.19	...	...	0.001	(0.003)	0.190			35 x 12		
CRM	119 TI E378-1(D)	1.181	1.172	0.0579	0.617	28.22	4.43	0.0503	...	...	0.606	...	...	0.0055	(0.0023)	...	Co 63.52		40 x 20		W
CRM	119 MI 64B	0.062	0.27	0.78	9.06	25.26	2.12	4.77	...	0.020	3.02	0.011	0.005	(0.0004)	0.005	0.12		Ultimet 1233	31 x 18		W
CRM	119 MI 95B	0.946	0.46	0.99	2.25	28.8	3.42	0.83	(0.002)	0.008	1.10	0.004	(0.0004)	0.0006	0.010	0.0027		Stellite 6B	31 x 18		
CRM	119 MI 95C	1.10	0.54	1.55	2.88	29.0	3.96	1.37	(0.008)	0.014	2.47	0.004	(0.0004)	0.001	0.009	0.033		Stellite 6B	31 x 18		
CRM	119 MI 96B	0.132	0.16	1.39	10.04	20.54	14.52	1.17	0.046	0.047	2.29	0.007	(0.0005)	0.0005	0.0063	0.007		Stellite 25	31 x 18		
CRM	119 MI 96C	0.132	0.31	1.91	10.36	19.95	15.4	1.88	0.047	0.08	2.93	0.007	(0.0002)	0.001	0.008	0.031		Stellite 25	31 x 18		
CRM	119 MI 96D	0.079	0.23	1.40	10.66	19.97	14.71	0.35	0.08	0.038	2.17	0.046	(0.004)	0.0005	0.006	0.0084		Stellite 25	31 x 18		
CRM	119 MI 97C	0.130	0.47	0.82	22.8	22.2	14.6	0.36	0.023	0.027	2.37	0.011	0.0010	0.0004	0.011	0.075		Stellite 188	31 x 18		
CRM	119 MI 208C	0.052	0.62	0.53	0.63	27.55	0.02	6.12	0.011	0.01	0.29	0.012	0.0002	0.0004	0.010	0.169		Stellite 21 - F75	31 x 18		
	119 X COB 1E	0.009	0.41	0.52	22.8	24.3	11.1	...	...	<0.005	16.4	...	...	0.0015	(0.001)	0.188	Al 0.39		44 x 20		C
	119 X COB 2A	...	...	0.50	22.3	24.7	11.5	...	...	...	9.6	...	...	...	...	...			40 x 15		
	119 X 81601A	0.29	1.17	1.55	19.6	14.2	3.75	3.85	3.9	...	12.6	...	0.042	0.03	...	...			40 x 15		
CRM	119 X ST3H	2.19	0.82	0.51	2.5	30.4	11.6	0.345	0.02	0.065	2.58	...	...	0.013	0.005	0.094	B 0.012		43 x 20		

12.1 Various Zr Alloys

	Sn	Ni	Cr	Cu	Fe	Mo		Size (mm) Ø	H	
121P Zr 20	1.50	0.05	0.10	...	0.15	...	Suitable for use with	32 x 8		C
121P Zr 30	...	...	...	0.50	0.05	0.50	XRF spectrometers	32 x 8		
121P Zr 40	1.50	...	0.10	...	0.15	...	only.	32 x 8		

See page 74 for materials in Chippings form

For Setting-Up Samples see section 16