



TALLADIUM, INC

CERAMIC ALLOYS

Alloy	Class	Color	Precious Metal Content (%)				CTE @ 600°C	Density g/cm ³	Melting Range		Casting Temp		Yield Strength	Tensile Strength	Elongation (%)H	Vickers (MPa)	Pre-Solder	Post-Solder
			Au	Pt	Pd	Ag			°F	°C	°F	°C						
Bio-98+	High Noble	Rich Yellow	98.42	1	-	-	15.7	19.2	1895-1973°F 1035-1078°C	2200°F 1204°C	20,225	77,500	52	38	#1060	#201		
C-88	High Noble	Rich Yellow	88	9.5	-	-	14.7	18.6	1920-2060°F 1049-1127°C	2200°F 1204°C	60,500	72,500	10	180	#1046	#1041		
C-87	High Noble	Yellow	87	4.5	6	1	14.7	18.5	2100-2150°F 1149-1177°C	2300°F 1260°C	68,500	77,000	8	185	#1047	#1041		
C-86	High Noble	Rich Yellow	86	11.5	-	-	14.6	18.8	1935-2072°F 1057-1133°C	2450°F 1343°C	84,500	95,000	6	215	#1046	#1041		
C-84	High Noble	Light Yellow	84	8	5	-	14.4	18.1	2150-2225°F 1177-1218°C	2300°F 1260°C	68,500	87,025	8	221	#1047	#1041		
RPD-766	High Noble	White	76.6	9.9	9.3	1.2	14.3	18.0	2125-2300°F 1162-1260°C	2450°F 1343°C	63,000	85,000	9	210	#1048	#1043		
C-76	High Noble	White	76	-	17.4	1	14.5	16.0	1995-2200°F 1090-1215°C	2375°F 1302°C	74,500	100,000	12	245	#1046	#1043		
C-74	High Noble	Light Yellow	74	4	7.7	11	14.5	15.9	2085-2165°F 1140-1185°C	2300°F 1260°C	72,000	85,000	12	225	#1047	#1043		
C-66+	High Noble	White	66.5	-	24.6	-	14.4	15.2	2225-2275°F 1218-1246°C	2450°F 1343°C	79,000	115,000	15	245	#1048	#1043		
C-60	High Noble	White	60	-	30.55	-	14.4	14.3	2015-2282°F 1100-1250°C	2450°F 1343°C	80,000	100,000	10	260	#1048	#1043		
C-52	High Noble	White	52	-	38	-	14.1	14.5	2325-2375°F 1274-1302°C	2450°F 1343°C	82,000	125,000	20	255	#1048	#1043		
RPD-SFC	High Noble	White	52	-	38	-	14.0	13.5	2250-2350°F 1232-1288°C	2450°F 1343°C	85,000	115,000	18.5	225	#1048	#1043		
C-50	High Noble	White	50	-	25	19	14.5	14.1	2100-2300°F 1149-1260°C	2450°F 1343°C	51,000	74,000	7	241	#1048	#1043		
C-45	High Noble	White	45	-	44	-	14.2	14.3	2175-2320°F 1190-1271°C	2450°F 1343°C	75,500	93,000	13	245	#1048	#1043		
C-40	High Noble	White	40	-	40	10	14.2	13.0	2150-2325°F 1177-1274°C	2450°F 1343°C	83,000	115,750	20	260	#1048	#1043		
C-6	Noble	White	6	-	75	6.8	14.4	11.5	2090-2260°F 1143-1238°C	2450°F 1343°C	77,000	118,500	30	265	#1045	#1043		
C-2	Noble	White	2	-	75.86	-	14.3	11.2	2080-2285°F 1138-1252°C	2450°F 1343°C	87,000	150,000	20	300	#1045	#1043		
C-Pd60	Noble	White	-	-	60	28	14.8	11.2	2250-2350°F 1232-1288°C	2525°F 1385°C	71,000	94,000	20	245	#1049	#201		
C-Pd54	Noble	White	-	-	53.5	37.5	14.8	11.0	2150-2300°F 1177-1260°C	2450°F 1343°C	86,000	118,000	18	250	#1049	#201		