

Material Composition for 6163 Potentiometer

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (mg)	Special Classification			
Housing	Aluminum Alloy 6061	48.963%	Al	7429-90-5	5.363				
			Cr	7440-47-3	0.036				
			Cu	7440-50-8	0.026				
			Fe	7439-89-6	0.051				
			Mg	7439-95-4	0.259				
			Mn	7439-96-5	0.032				
			Si	7440-21-3	0.173				
			Ti	7440-32-6	0.032				
			Zn	7440-66-6	0.034				
			Marking	0.002%	cobalt napthenate	61789-51-3	0.000		
	cobalt neodecanonate	27253-31-2			0.000				
	Hexahydro-1, -3 isobenzofura trade secret	85-42-7 n/a			0.000 0.000	non-hazardous			
	Ball bearing 1	CRES 440C	5.263%	Fe	7439-89-6	0.522			
Cr				7440-47-3	0.097				
Mn				7439-96-5	0.006				
Mo				7439-98-7	0.004				
Si				7440-21-3	0.006				
C				7440-44-0	0.006				
Ball bearing 2				CRES 440C	5.263%	Fe	7439-89-6	0.522	
	Cr	7440-47-3	0.097						
	Mn	7439-96-5	0.006						
	Mo	7439-98-7	0.004						
	Si	7440-21-3	0.006						
	C	7440-44-0	0.006						
	Terminal	OFHC copper matte Sn plating	3.105%			Cu	7440-50-8	0.382	
Sn				7440-31-5	0.002				
Contact	BeCu alloy	0.157%	Cu	7440-50-8	0.019				
			Be	7440-41-7	0.000				
			Ni	7440-02-0	0.000				
			Co	7440-48-4	0.000				
	Pd alloy	0.016%	Pd	7440-05-3	0.001				
			Ag	7440-22-4	0.001				
			Pt	7440-06-4	0.000				
			Cu	7440-50-8	0.000				
	Ni alloy	0.019%	Ni	7440-02-0	0.000				
			Ni	7440-02-0	0.002				
			Cu	7440-50-8	0.000				
			C	7440-44-0	0.000				
			Fe	7439-89-6	0.000				
			Mn	7439-96-5	0.000				
			S	7704-34-9	0.000				
			Si	7440-21-3	0.000				
			Shaft	stainless steel	11.919%	Fe	7439-89-6	0.755	
C	7440-44-0	0.007							
Cr (0	7440-47-3	0.449							
Mn	7439-96-5	0.069							
Ni	7440-02-0	0.055							
P	7723-14-0	0.007							
S	7704-34-9	0.007							
Si	7440-21-3	0.025							
Truarc 1	stainless steel	0.628%				Fe	7439-89-6	0.056	
						C	7440-44-0	0.000	
						Cr (0	7440-47-3	0.014	
			Mn	7439-96-5	0.001				
			Ni	7440-02-0	0.006				
			P	7723-14-0	0.000				
			S	7704-34-9	0.000				
			Si	7440-21-3	0.000				
			Truarc 2	stainless steel	0.628%	Fe	7439-89-6	0.056	
						C	7440-44-0	0.000	
						Cr (0	7440-47-3	0.014	
Mn	7439-96-5	0.001							
Ni	7440-02-0	0.006							
P	7723-14-0	0.000							
S	7704-34-9	0.000							
Si	7440-21-3	0.000							
Rotor	PA 66 plastic blend	4.342%				polyhexamethylene fiberglass	32131-17-2 65997-17-3	0.521 0.265	non-hazardous
						trade secret	n/a	0.016	
Washer	stainless steel	0.271%				Fe	7439-89-6	0.024	
			C	7440-44-0	0.000				
			Cr (0	7440-47-3	0.006				
			Mn	7439-96-5	0.000				
			Ni	7440-02-0	0.003				
			Si	7440-21-3	0.000				
			Element	alumina	19.342%	Al2O3	1344-28-1	2.296	
CaO	1305-78-8	0.012							
FeO2	1345-25-1	0.012							
MgO	1309-48-4	0.012							
MnO2	1313-13-9	0.024							
SiO2	7631-86-9	0.024							
TiO2	13463-67-7	0.012							
marking ink	0.028%	DAIP resin				1087-21-4	0.003		
		carbon black				1333-86-4	0.000		
		SiO2				7631-86-9	0.000		
lubricant	0.002%	trade secret		n/a	0.000	non-hazardous			
		Ag		7440-22-4	0.002				
conductor	0.028%	BiO3		1304-76-3	0.000				
		NiO		1313-99-1	0.000				
		nonylphenol		68412-53-3	0.000				
		Pd		7440-05-3	0.001				
		trade secret		n/a	0.000	non-hazardous			
		DAIP resin		1087-21-4	0.002				
		Carbon		7440-44-0	0.001				
		3-(trimethoxysilyl)		2530-85-0	0.000				
resistor	0.025%	SiO2		7631-86-9	0.000				
		t-butyl		614-45-9	0.000				
		trade secret		n/a	0.000	non-hazardous			
		DAIP resin	1087-21-4	0.002					
		Carbon	7440-44-0	0.001					

Total mass	12.463 mg
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