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Materials Declaration

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Completed by Bruce Clark

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Product Family : FX255 - 1.8x4.9mm Watch Crystal

	Material Name	Component	Content (mg)	Content (wt %)	(CAS Number)
Cover	Iron alloy	Iron (Fe)	3.011	11.89%	7439-89-6
		Nickel (Ni)	1.587	6.267%	7440-02-0
		Cobalt (Co)	0.876	3.459%	7440-48-4
	Plating	Gold (Au)	0.007	0.028%	7440-57-5
		Nickel (Ni)	0.003	0.012%	7440-02-0
	Seal	Gold (Au)	1.440	5.687%	7440-57-5
		Tin (Sn)	0.360	1.422%	7440-31-5
Base	Ceramic	Alumina (Al ₂ O ₃)	12.722	50.241%	1344-28-1
		Silicon Dioxide (SiO ₂)	0.505	1.994%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	0.543	2.144%	1308-38-9
		Titanium Oxide (TiO ₂)	0.146	0.577%	13463-67-7
		Magnesium Oxide (MgO)	0.068	0.269%	1309-48-4
		Calcium Oxide (CaO)	0.049	0.194%	1305-78-8
	Conductor	Tungsten (W)	1.931	7.626%	7440-33-7
		Molybdenum (Mo)	0.058	0.229%	7439-98-7
	Ni Plating	Nickel (Ni)	0.689	2.721%	7440-02-0
		Cobalt (Co)	0.175	0.691%	7440-48-4
	Gold Plating	Gold (Au)	0.087	0.344%	7440-57-5
	Seal Material		Gold (Au)	0.453	1.789%
		Germanium (Ge)	0.065	0.257%	7440-56-4
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.346	1.366%	14808-60-7
	Electrode	Silver (Ag)	0.0010	0.00395%	7440-22-4
		Chromium (Cr)	0.000160	0.00063%	7440-47-3
	Adhesive	Silver (Ag)	0.180	0.711%	7440-22-4
		Silicone resin	0.020	0.079%	
TOTAL			25.322	100.00%	