

Materials Declaration

Company Name : Fox Electronics
Address : 5570 Enterprise Parkway
: Ft Myers FL 33905
Phone : 239-690-2238
Fax : 239-690-3438
E-mail : brucec@foxonline.com
Completed by Bruce Clark

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Product Family : FX135 - 1.5x3.2mm Watch Crystal

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Iron alloy	Iron (Fe)	1.584	11.88%	7439-89-6
		Nickel (Ni)	0.835	6.261%	7440-02-0
		Cobalt (Co)	0.461	3.457%	7440-48-4
	Plating	Gold (Au)	0.004	0.030%	7440-57-5
		Nickel (Ni)	0.002	0.015%	7440-02-0
	Seal	Gold (Au)	0.320	2.399%	7440-57-5
		Tin	0.080	0.600%	7440-31-5
Base	Ceramic	Alumina (Al ₂ O ₃)	6.718	50.372%	1344-28-1
		Silicon Dioxide (SiO ₂)	0.267	2.002%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	0.287	2.152%	1308-38-9
		Titanium Oxide (TiO ₂)	0.074	0.555%	13463-67-7
		Magnesium Oxide (MgO)	0.037	0.277%	1309-48-4
		Calcium Oxide (CaO)	0.025	0.187%	1305-78-8
	Conductor	Tungsten (W)	1.401	10.505%	7440-33-7
		Molybdenum (Mo)	0.043	0.322%	7439-98-7
	Ni Plating	Nickel (Ni)	0.181	1.357%	7440-02-0
		Cobalt (Co)	0.045	0.337%	7440-48-4
	Gold Plating	Gold (Au)	0.072	0.540%	7440-57-5
	Seal Material		Gold (Au)	0.453	3.397%
		Germanium (Ge)	0.065	0.487%	7440-56-4
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.302	2.264%	14808-60-7
	Electrode	Titanium (Ti)	0.0006	0.00450%	7440-32-6
		Palladium (Pd)	0.000093	0.00070%	7440-05-3
		Gold (Au)	0.000060	0.00045%	7440-57-5
	Adhesive	Silver (Ag)	0.07200	0.540%	7440-22-4
		Silicone resin	0.008000	0.060%	
TOTAL			13.337	100.00%	