

Fox Electronics Headquarters
5570 Enterprise Parkway
Fort Myers, FL, 33905 USA
Tel: 888-GET-2-FOX
Outside US: +1.239.693.0099
Fax: +1.239.693.1554

Fox Electronics EMEA
14 Banks Road
Biggleswade, Bedfordshire
SG18 0DY, United Kingdom
Tel/Fax: +44.1767.312632

Fox Electronics Asia
4/F Gold & Silver Commercial Bldg.
12-18 Mercer St.
Central, Hong Kong
Tel: +852.2854.4285
Fax: +852.2854.4282

Fox Electronics Japan
3-28-6-1A Yoyogi
Shibuya-ku, Tokyo 151
Japan
Tel: +81.3.3374.2079
Fax: +81.3.3377.5221

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 : FX145 - 1.5x4.1mm Watch Crystal

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Iron alloy	Iron (Fe)	1.807	11.49%	7439-89-6
		Nickel (Ni)	0.953	6.060%	7440-02-0
		Cobalt (Co)	0.526	3.345%	7440-48-4
	Plating	Gold (Au)	0.006	0.038%	7440-57-5
		Nickel (Ni)	0.003	0.019%	7440-02-0
	Seal	Gold (Au)	0.480	3.052%	7440-57-5
		Tin	0.120	0.763%	7440-31-5
Base	Ceramic	Alumina (Al ₂ O ₃)	8.077	51.362%	1344-28-1
		Silicon Dioxide (SiO ₂)	0.324	2.060%	7631-86-9
		Chromium Oxide (Cr ₂ O ₃)	0.342	2.175%	1308-38-9
		Titanium Oxide (TiO ₂)	0.090	0.572%	13463-67-7
		Magnesium Oxide (MgO)	0.045	0.286%	1309-48-4
		Calcium Oxide (CaO)	0.028	0.178%	1305-78-8
	Conductor	Tungsten (W)	1.313	8.349%	7440-33-7
		Molybdenum (Mo)	0.045	0.286%	7439-98-7
	Ni Plating	Nickel (Ni)	0.467	2.970%	7440-02-0
		Cobalt (Co)	0.116	0.738%	7440-48-4
	Gold Plating	Gold (Au)	0.063	0.401%	7440-57-5
	Seal Material		Gold (Au)	0.453	2.881%
		Germanium (Ge)	0.065	0.413%	7440-56-4
Crystal	Crystal	Silicon Dioxide (SiO ₂)	0.302	1.920%	14808-60-7
	Electrode	Titanium (Ti)	0.0006	0.00382%	7440-32-6
		Palladium (Pd)	0.000093	0.00059%	7440-05-3
		Gold (Au)	0.000060	0.00038%	7440-57-5
	Adhesive	Silver (Ag)	0.09000	0.572%	7440-22-4
		Silicone resin	0.010000	0.064%	
TOTAL			15.726	100.00%	