



NIHON DEMPA KOGYO CO., LTD.

1275-2, Kamihirose, Sayama, Saitama 350-1321, Japan

Phone: 81-4-2900-6602 FAX: 81-4-2900-6697

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Koji Kubota

Corporate Officer & General Manager of Quality Assurance Division

NIHON DEMPA KOGYO CO., LTD.

Ingredient Sheet

NX3215SA

Part		Substance	Fomula	CAS No.	Weight(mg)	Weight(g)	wt%/Part	wt%/Total Weight	ppm/Total Weight	
Crystal	Blank	Crystal	SILICON DIOXIDE	SiO2	14808-60-7	0,124	0,000124	100	0,96435015	9643,50152
Cover	Kovar	IRON	Fe	7439-89-6	0,999	0,000999	53,268636	7,76924034	77692,4034	
		MANGANESE	Mn	7439-96-5	0,009	0,000009	0,47989762	0,06999316	699,931562	
		NICKEL	Ni	7440-02-0	0,544	0,000544	29,0071451	4,23069744	42306,9744	
		SILICON	Si	7440-21-3	0,004	0,000004	0,21328783	0,03110807	311,080694	
		CARBON	C	7440-44-0	0,0004	0,0000004	0,02132878	0,00311081	31,1080694	
		COBALT	Co	7440-48-4	0,319	0,000319	17,0097046	2,48086854	24808,6854	
	Ni plating	NICKEL	Ni	7440-02-0	0,135	0,000135	100	1,04989734	10498,9734	
Base	Ceramic	CALCIUMOXIDE	CaO	1305-78-8	0,04	0,00004	0,60790274	0,31108069	3110,80694	
		CHROMIUMOXIDE	Cr2O3	1308-38-9	0,04	0,00004	0,60790274	0,31108069	3110,80694	
		MAGNESIUMOXIDE	MgO	1309-48-4	0,04	0,00004	0,60790274	0,31108069	3110,80694	
		ALUMINA	Al2O3	1344-28-1	5,89	0,00589	89,5136778	45,8066322	458066,322	
		SILICON DIOXIDE	SiO2	14808-60-7	0,29	0,00029	4,40729483	2,25533503	22553,3503	
		MOLYBDENUM	Mo	7439-98-7	0,28	0,00028	4,25531915	2,17756486	21775,6486	
	Matalization	TUNGSTEN	W	7440-33-7	1,5	0,0015	100	11,665526	116655,26	
	Ni plating	NICKEL	Ni	7440-02-0	0,19	0,00019	76	1,4776333	14776,333	
		COBALT	Co	7440-48-4	0,06	0,00006	24	0,46662104	4666,21041	
	Au plating	GOLD	Au	7440-57-5	0,07	0,00007	100	0,54439122	5443,91215	
	Kovar ring	IRON	Fe	7439-89-6	0,88	0,00088	54,3209877	6,84377528	68437,7528	
		NICKEL	Ni	7440-02-0	0,47	0,00047	29,0123457	3,65519816	36551,9816	
		COBALT	Co	7440-48-4	0,27	0,00027	16,6666667	2,09979469	20997,9469	
	Silver solder	SILVER	Ag	7440-22-4	0,35	0,00035	85,3658537	2,72195608	27219,5608	
		COPPER	Cu	7440-50-8	0,06	0,00006	14,6341463	0,46662104	4666,21041	
	Evaporation	Au	GOLD	Au	7440-57-5	0,031	0,000031	100	0,24108754	2410,87538
		Cr	CHROMIUM	Cr	7440-47-3	0,001	0,000001	100	0,00777702	77,7701736
Electro conductive	Adhesive	SILVER	Ag	7440-22-4	0,2329	0,0002329	88,8931298	1,81126734	18112,6734	
		COLLOIDALSILICA	SiO2	7631-86-9	0,0291	0,0000291	11,1068702	0,22631121	2263,11205	
Total					12,8584	0,0128584		100	1000000	