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Crystal Data: Cubic; metamict. *Point Group*: n.d. As long to short prismatic crystals, striated parallel to elongation, to 5 cm; in parallel to radiating groups, and dendritic aggregates.

Physical Properties: Cleavage: Perpendicular to the length, probably a parting. Fracture: Conchoidal. Tenacity: Brittle. Hardness = 5.5 D(meas.) = 4.60 D(calc.) = [4.13] Strongly radioactive.

Optical Properties: Transparent to translucent. Color: Black to dark brown; coffee-brown to brownish yellow in thin section. Streak: Reddish brown. Luster: Vitreous to resinous. Optical Class: Isotropic. n = 2.205(5)

Cell Data: Space Group: n.d. a = 5.021-5.057 Z = [1]

X-ray Powder Pattern: Shiraishi pegmatite, Japan; after heating one hour at 620 °C in air. 2.89 (10), 1.776 (8), 1.514 (7), 2.506 (4), 1.154 (3b), 1.126 (3b), 1.027 (2b)

Chemistry:		(1)	(2)		(1)	(2)
	U_3O_8	5.39	5.84	$\mathrm{Ce_2O_3}$	1.83	1.64
	$(Nb, Ta)_2O_5$	7.25	8.01	Fe_2O_3	8.32	9.55
	SiO_2	1.99	1.59	$\overline{\text{MnO}}$	2.16	1.48
	TiO_2	26.21	26.02	MgO	0.50	0.79
	ZrO_2^{Z}	14.91	17.08	CaO	0.53	0.73
	$\overline{\text{ThO}_2}$	1.25	1.31	$\mathrm{H_{2}O^{+}}$	3.87	2.81
	Al_2O_3	0.33	0.35	$H_2^-O^-$	0.47	0.42
	Y_2O_3	24.40	21.98	Total	[99.41]	99.60

(1) Shiraishi pegmatite, Japan; total Fe as Fe_2O_3 ; H_2O^+ as loss on ignition; original total given as 99.73%. (2) Ushio mine, Japan; H_2O^+ as loss on ignition.

Occurrence: In granite pegmatites (Japan); in a stream cobble of graphic granite (Paringa River, New Zealand).

Association: Anatase, parisite, zircon, monazite, chevkinite, xenotime, allanite, biotite, albite, quartz, muscovite (Shiraishi pegmatite, Japan); plagioclase, allanite, zircon, fergusonite, magnetite, ilmenite, pyrite (Ushio mine, Japan); plagioclase, microcline, epidote, muscovite, chlorite, quartz (Paringa River, New Zealand).

Distribution: In Japan, from the Shiraishi pegmatite, Oyama, and in the Ushio mine, Omiya, Kyoto Prefecture; from Senogawa-machi, Hiroshima Prefecture. In a cobble found in the Paringa River, about 1.2 km upstream from the Weheka-Paringa highway bridge, South Westland, New Zealand.

Name: For Kobe-Mura [presently Oyama-cho], Japan, from where it was first noted.

Type Material: n.d.

References: (1) Takubo, J., Y. Ukai, and T. Minato (1950) Studies on the minerals containing rare elements. (part 11) A new mineral [kobeite] found at Shirashi, Kobe-mura, Nakagun, Kyoto Prefecture, Japan. J. Geol. Soc. Japan, 56(663), 509–513 (in Japanese with English abs.). (2) (1951) Amer. Mineral., 36, 942 (abs. ref. 1). (3) Hutton, C.O. (1957) Kobeite from Paringa River, South Westland, New Zealand. Amer. Mineral., 42, 342–353. (4) Masutomi, K., K. Nagashima, and A. Kato (1961) Kobeite from the Ushio mine, Kyoto Prefecture, Japan, and re-examination of kobeite. Mineral. J. (Japan), 3, 139–147. (5) Vlasov, K.A., Ed. (1966) Mineralogy of rare elements, v. II, 226–227. (6) Nambu, M., Ed. (1970) Introduction to Japanese minerals. Geol. Surv. Japan, 64–65.

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