(c)2001-2005 Mineral Data Publishing, version 1

Crystal Data: Orthorhombic; metamict. Point Group:  $2/m \ 2/m \ 2/m$ . Euhedral crystals, elongated along [001], tabular on  $\{100\}$ , with  $\{100\}$ ,  $\{010\}$  and  $\{011\}$ , to 0.15 mm, intergrown with uranoan polycrase-(Y).

Physical Properties: Cleavage:  $\{100\}$ , good. Hardness = n.d. VHN = 659 (20 g load). D(meas.) = n.d. D(calc.) = [6.60] Radioactive.

**Optical Properties:** Opaque. *Color:* Red-brown; in reflected light, pale gray with bluish tint and dark red-brown internal reflections. *Streak:* Brown. *Luster:* Adamantine. *Optical Class:* Isotropic.

R: (470) 23.6, (546) 21.5, (589) 22.3, (650) 25.1

**Cell Data:** Space Group: Pbcn. a = 14.51(1) b = 5.558(5) c = 5.173(4) Z = [4]

X-ray Powder Pattern: San Piero in Campo, Elba, Italy; after heating at 900 °C for ten hours.

2.99 (100), 1.90 (50), 1.48 (40), 1.77 (35), 2.78 (25), 3.21 (12), 1.86 (10)

Chemistry:

	(1)
$Nb_2O_5$	11.27
${ m Ta_2O_5}$	5.98
${ m TiO}_2$	27.36
$\mathrm{ThO}_2$	4.14
$UO_2$	39.08
$Y_2O_3$	7.78
$\overline{\mathrm{Nd}}_{2}\overline{\mathrm{O}}_{3}$	0.37
$\overline{\text{MnO}}$	0.48
CaO	0.22
Total	[96.68]

(1) San Piero in Campo, Elba, Italy; by electron microprobe, original total given as 96.73%; corresponding to  $(U_{0.62}Y_{0.29}Th_{0.07}Mn_{0.03}Ca_{0.02}Nd_{0.01})_{\Sigma=1.04}(Ti_{1.46}Nb_{0.36}Ta_{0.12})_{\Sigma=1.94}O_6$ .

**Occurrence:** In a zoned pegmatite vein near the contact with granodiorite.

**Association:** Uranoan polycrase-(Y), euxenite-(Y), manganocolumbite, titanowodginite, uranmicrolite, beryl, stilbite, quartz, orthoclase, albite, lepidolite, elbaite.

**Distribution:** From San Piero in Campo, Elba, Italy.

Name: For its content of URANium and relation to polycrase-(Y).

**Type Material:** University of Pisa, Pisa, Italy.

**References:** (1) Aurisicchio, C., P. Orlandi, M. Pasero, and N. Perchiazzi (1993) Uranopolycrase, the uranium-dominant analogue of polycrase-(Y), a new mineral from Elba Island, Italy, and its crystal structure. Eur. J. Mineral., 5, 1161–1165. (2) (1994) Amer. Mineral., 79, 766 (abs. ref. 1).