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**Crystal Data:** Cubic. Point Group:  $4/m \overline{3} 2/m$ . As dodecahedra, octahedra, or cubes, complexly modified by  $\{112\}$ ,  $\{116\}$ ,  $\{223\}$ ,  $\{123\}$ , many others; may be acicular to filiform by elongation on [001]. Commonly as granular aggregates or massive crusts and films.

**Physical Properties:** Fracture: Uneven to conchoidal. Tenacity: Brittle. Hardness = 2.5 D(meas.) = 8.309-8.45 D(calc.) = 8.652

**Optical Properties:** Translucent. *Color:* Yellow, yellow-orange, light brownish yellow to dark brown or black with exposure to light; yellowish brown to brown in transmitted light. *Streak:* Yellow or greenish yellow, rapidly becoming black. *Luster:* Brilliant adamantine to resinous.

Optical Class: Isotropic, occasionally weakly anisotropic. n = 2.49(2)

Cell Data: Space Group: Ia3d. a = 16.036 Z = 16

**X-ray Powder Pattern:** Terlingua, Texas, USA. 3.273 (100), 1.890 (57), 2.536 (47), 4.009 (36), 1.709 (14), 2.315 (11), 1.336 (9)

Chemistry:		(1)	(2)	(3)
	$_{\mathrm{Hg}}$	89.00	89.90	89.62
	О	1.79		1.79
	Cl	8.22	7.79	7.92
	$\operatorname{Br}$		0.13	
	$H_2O$			0.67
	Total	99.01		100.00

(1) Terlingua, Texas, USA; average of three analyses. (2) Arzak deposit, Russia; by electron microprobe, average of five analyses. (3)  $Hg_6HCl_3O_2$ .

**Polymorphism & Series:** Forms a series with kadyrelite.

**Occurrence:** An oxidation product of other mercury minerals in mercury deposits.

Association: Calomel, mercury, terlinguaite, montroydite, calcite (Terlingua, Texas, USA); cinnabar, mercury, calomel (San Mateo Co., California, USA); lavrentievite, calomel, mercury, kadyrelite (Kadyrel deposit, Russia).

**Distribution:** In the USA, at Terlingua, Brewster Co., Texas; around Crawford and Jackfork, Pike Co., Arkansas; in the McDermitt and Cordero mercury mines, Opalite district, and at the Cahill mine, Poverty Peak district, Humboldt Co., Nevada; from the Denio district, Harney Co., Oregon. In California, near the New Idria mine, San Benito Co.; in the Challenge deposit, near Emerald Lake, southwest of Redwood City, San Mateo Co.; in the Kings mine, Parkfield district, Kings Co.; and at the Socrates mine, Sonoma Co. At Huahuaxtla, Guerrero, and Guadalćazar, San Luis Potosi, Mexico. From South Africa, in the Monarch cinnabar mine, Transvaal. At Landsberg, near Obermoschel, Rhineland-Palatinate, Germany. In Russia, from Siberia, in the Arzak and Kadyrel deposits, Tuva, and the Kelyan Sb–Hg deposit, Buryatia; in the Aktash mercury deposit, Kosh-Agach district, Kurai Range, Altai Mountains. From Khaydarkan, Fergana Valley, Alai Range, Kyrgyzstan. In the Ruziobnok deposit, central Tajikistan. Several other localities are known.

**Name:** Honors Thomas Egleston (1832–1900), Professor of Mineralogy and Metallurgy, Columbia University, New York City, New York, USA.

Type Material: National Museum of Natural History, Washington, D.C., USA, R1325.

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