Crystal Data: Hexagonal; metamict. Point Group: [3 or 3] [by analogy to davidite-(La)]. In elongated masses, to 20 cm, with rough semi-linear outlines.

Physical Properties: Fracture: Subconchoidal. Tenacity: [Brittle.] Hardness = 6 D(meas.) = 4.29 D(calc.) = n.d. Radioactive.

Optical Properties: Opaque, translucent in very thin fragments. Color: Black, brownish on oxidized surfaces; clove-brown in transmitted light; gray in reflected light. Streak: Black to very dark gray. Luster: Vitreous.

Optical Class: Isotropic. n = n.d.

R: n.d.

Cell Data: Space Group: $[R\overline{3}.]$ a = n.d. c = n.d. Z = n.d.

X-ray Powder Pattern: Tuftane, Norway; after heating at 1030 °C for one hour. 2.88 (vs), 2.47 (s), 2.23 (s), 2.13 (s), 1.59 (s), 1.43 (s), 3.39 (m)

Chemistry:

	(1)
U_3O_8	1.1
SiO_2	0.34
${ m TiO}_2$	52.1
RE_2O_3	17.3
Fe_2O_3	9.5
FeO	17.1
MnO	1.0
$\mathrm{H_2O}$	1.63
Total	100.07

(1) Tuftane, Norway; separate spectrographic analysis of $\mathrm{RE_2O_3}$ gave: $\mathrm{Y_2O_3}$ 23%, $\mathrm{La_2O_3}$ 22%, $\begin{array}{l} {\rm CeO_2~32\%,\,Pr_6O_{11}~2.4\%,\,Nd_2O_3~2.8\%,\,Sm_2O_3<0.2\%,\,Eu_2O_3~0.4\%,\,Gd_2O_3<0.1\%,\,Tb_4O_7<0.2\%,\,Dy_2O_3~1.6\%,\,Ho_2O_3~0.55\%,\,Er_2O_3~2.5\%,\,Tm_2O_3~1.2\%,\,Yb_2O_3~9.5\%,\,Lu_2O_3~1.7\%,\,{\rm and}} \end{array}$ $ThO_2 1.5\%$.

Mineral Group: Crichtonite group.

Occurrence: In a pegmatite dike, rich in rare-earth minerals, in granite.

Association: Ilmenite, rutile, gadolinite, euxenite, thortveitite, xenotime, allanite, zircon.

Distribution: From Tuftane, Iveland, Norway.

Name: For its relation to davidite and dominant cerium content.

Type Material: Mineralogical-Geological Museum, University of Oslo, Oslo, Norway.

References: (1) Neumann, H. and T.L. Sverdrup (1960) Davidite from Tuftan, Iveland. Norsk geol. tidsskr., 40(3-4), 277–288. (2) Vlasov, K.A., Ed. (1966) Mineralogy of rare elements, v. II, 255-258.