NEW MINERAL NAMES

Todorokite

YOSHIMURA, TOYOFUMI: "Todorokite," a New Manganese Mineral from the Todoroki Mine, Hokkaido, Japan. *Jour. Faculty of Science, Hokkaido Imp. Univ., Ser. IV, Geol. and Min.*, **2**, No. 4, 289–297, 1934, 2 pls. (In English).

NAME: From the locality, the Todoroki Mine.

CHEMICAL PROPERTIES: A hydrated oxide of manganese; $2(RO \cdot MnO_2 \cdot 2H_2O) \cdot 3(Mn_2O_3 \cdot 3MnO_2 \cdot 2H_2O)$. Analysis: K_2O 0.54, Na_2O 0.21, MgO 1.01, CaO 3.28, BaO 2.05, Al_2O_3 0.28, Fe_2O_3 0.20, MnO 65.89, O 12.07, H_2O+ 9.72, H_2O- 1.56, SiO_2 0.45, TiO_2 tr., CO_2 tr., P_2O_5 0.42, SO_3 0.28, Insol. 1.28; total 99.24.

BLOWPIPE PROPERTIES: Turns brown, loses its metallic luster but does not fuse. Soluble in HCl with evolution of chlorine, in concentrated H_2SO_4 to distinctly purple red solution, in HNO_3 with residue of MnO_2.

CRYSTALLOGRAPHICAL PROPERTIES: Monoclinic (?), $\beta = 110°$. Twinning frequent. Cleavage (010) and (100), highly perfect. X-ray examination indicates crystallinity.

PHYSICAL AND OPTICAL PROPERTIES: Color and luster like graphite. Under the microscope the mineral is transparent, with various shades of brown color and shows parallel extinction. Plane of optic axes appears to be parallel to (010). n greater than 1.74, birefringence nearly 0.02. Pleochroism distinct,

Z = yellowish brown, X = dark brown. $Z > X$.

Soft, soils the fingers. G. 3.67.

OCCURRENCE: Found as very fine fibrous flakes, about 0.05 mm. in length, loosely aggregated in sponge like masses, in druses in the Todoroki Mine, 25 kms. S.E. of Ginzan, Siribesi Province, Hokkaido, Japan. Derived from inesite and an inesite-like zeolite, in auriferous quartz veins.

W. F. F.

Milowite

WILSON, J. N.: Milowite, an unusual form of silica. *Sands, Clays, and Minerals*, Vol. **2**, No. 3, 127–130, 1935.

A trade name for a very fine grained chalk-like form of quartz occurring in large quantities on the Island of Milos, Grecian Archipelago. SiO_2 97.86%.

W. F. F.

Blockite
Ahlfeldite

RAMDOHR: Zwei neue Mineralien. *Centr. Min.*, Abt. **A**, No. 6, p. 189, 1935.

Blockite is a nickel selenide, probably $NiSe_2$. Ahlfeldite a complex nickel selenate. From Colquechaca.

W. F. F.