MONOCLINIC KAOLINITE FROM KOČEVJE MINE, YUGOSLAVIA

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During the field work in the Kočevje coal mine, p.r. Slovenia, one of the authors (S. Radošević) found, in a lens of sand below the coal seam, crystals of a mineral which was considered at first to be normal kaolinite. DTA and dehydration curves showed characteristics identical with the other members of the kaolin group, but the powder diagram, taken in a 19 cm. camera using Cu filtered radiation, differed from that of kaolinite (Brindley and Robinson, 1946).

Single crystal Laue, oscillation and Weissenberg photographs were taken using Cu, Co and Fe filtered radiation, on many crystals and they clearly revealed monoclinic symmetry. The length of the axis are:

\[
\begin{align*}
    a & = 5.13 \pm 0.02 \text{ Å} \\
    b & = 8.90 \pm 0.02 \text{ Å} \\
    c & = 21.5 \pm 0.5 \text{ Å}
\end{align*}
\]

with the angle \( \beta \) lying close to 90°.

The chemical analysis of the carefully selected crystals and the calculated structural formula given below, show that this mineral is kaolinite in which aluminium is partly substituted by ferric iron.

\[
\begin{align*}
    \text{SiO}_2 & : 44.62 \\
    \text{Al}_2\text{O}_3 & : 35.46 \\
    \text{Fe}_2\text{O}_3 & : 4.51 \\
    \text{TiO}_2 & : 0.20 \\
    \text{MnO} & : 0.07 \\
    \text{CaO} & : 0.07 \\
    \text{MgO} & : 0.72 \\
    \text{K}_2\text{O} & : 0.51 \\
    \text{Na}_2\text{O} & : 0.05 \\
    \text{H}_2\text{O}_+ & : 13.51
\end{align*}
\]

\[
(\text{Al}_{0.54}\text{Fe}^{3+}_{0.15})\text{Si}_{1.56}\text{O}_2.04(\text{OH})_{2.96}
\]

REFERENCE

1. BRINDLEY, G. W. AND ROBINSON, K., Min. Mag., 27, (1946).

SYMPOSIUM

The Geological Society of Czechoslovakia and the Faculty of Natural Sciences, Charles University, Prague, will arrange under the auspices of the Czechoslovak Academy of Sciences a symposium on "Problems of the origin of postmagnetic ore deposition (with special reference to the geochemistry of ore veins) in Prague, Czechoslovakia, September 16–21, 1963.

The symposium will consist of two parts: (1) Short written contributions and (2) Invited papers. Excursions will be held both before and after the symposium.
The Chairman of the organizing committee is J. Kutina, and the General Secretary M. Štremprok. Correspondence should be addressed to

General Secretary of the Symposium,
Ústřední ústav geologický
19. Malonstranské nám.,
Praha 1, Malá Strana, Czechoslovakia

ERRATUM

On page 567 of the May-June 1961 issue of the American Mineralogist, in the optical properties of nobleite, the correct orientation should read $Y=b$, and not $Y>b$ as printed.

Dr. Esper S. Larsen, III, a Fellow of the Mineralogical Society of America, died on October 9, 1961.