Axelite

Na$_{14}$Cu$_7$(AsO$_4$)$_8$F$_2$Cl$_2$

Crystal Data: Tetragonal.  

Point Group: 4mm.

Physical Properties: Cleavage: Tenacity: Fracture:

Hardness =  
D(meas.) =  
D(calc.) =

Optical Properties: Color: Streak: Luster:

Optical Class:

Cell Data: Space Group: P4bm.  

$\begin{align*}
a &= 14.5957(2)  
c &= 8.3433(2) 
\end{align*}$

X-Ray Diffraction Pattern: Arsenatnaya fumarole, Tolbachik volcano, Kamchatka, Russia.

2.747 (100), 3.180 (61), 5.156 (47), 8.32 (44), 2.709 (36), 3.246 (34), 2.580 (29)

Chemistry:

Polymorphism & Series:

Mineral Group:

Occurrence: A sublimate in active volcanic fumaroles.

Association:

Distribution: From the Arsenatnaya fumarole, Second scoria cone, Northern Breakthrough of the Great Tolbachik Fissure Eruption, Tolbachik volcano, Kamchatka, Russia.

Name:

Type Material: A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (5031/1).