Liuite

Crystal Data: Orthorhombic.  

Point Group: 2/m 2/m 2/m.

Physical Properties: Cleavage: Tenacity: Fracture:

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

Optical Properties: Color: Streak: Luster:

Optical Class:

Cell Data: Space Group: Pnma.  
a = 5.32(1)  b = 6.840(5)  c = 5.037(3)

X-Ray Diffraction Pattern: Shergotty Martian meteorite.

2.498 (100), 1.450 (37),1.829 (27), 2.518 (25), 2.660 (23), 1.625 (22), 3.225 (20)

Chemistry:

Polymorphism & Series: Polymorph of ilmenite.

Mineral Group:

Occurrence: At the rim of a transformed ilmenite-ülvospinel grain in a shock-melt pocket in a Martian meteorite.

Association: Feite, tschaunerite.

Distribution: From the Shergotty Martian meteorite.

Name:

Type Material: E. Stolper Martian Meteorite Collection, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California, USA (thin section Shergotty-1).