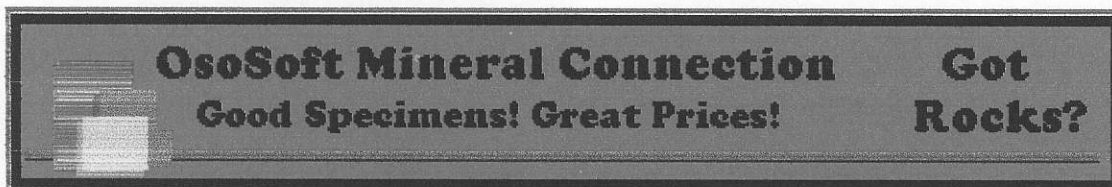


Tulameenite Mineral Data Pronunciation Guide

675769
Tulameen Pt.
92H/10



*OsoSoft Mineral Connection
Good Specimens. Great Prices.*

General Information

- **Chemical Formula:** Pt₂FeCu
- **Composition:** Molecular Weight = 509.55 gm)

Iron	10.96 %	<u>Fe</u>
Copper	12.47 %	<u>Cu</u>
Platinum	76.57 %	<u>Pt</u>
- **Empirical Formula:** Pt₂Fe⁰⁺Cu
- **Environment:** Platinum placers. Forms a series with tetraferroplatinum.
- **IMA Status:** Approved IMA 1973
- **Locality:** Tulameen and Similkameen River, British Columbia, Canada.
- **Name Origin:** Named after the locality.

Classification

- **Dana Class:** 1.2.4.2 (1)Native Elements
(1.2)with platinum group metals and alloys
(1.2.4)Tetraferroplatinum group (Space Group P4/mmm)
- **Strunz Class:** I/A.15-30 I - Elements
I/A - Metallic and intermetallic compounds, Platinum-Iron-
compounds with Tin/Lead and related compounds
I/A.15 - Isoferroplatinum - Ferronickelplatinum series

Crystallography

- **Axial Ratios:** a:c = 1:0.91875
- **Cell Dimensions:** a = 3.902, c = 3.585, Z = 1; V = 54.58 Den(Calc)= 15.50
- **Crystal System:** Tetragonal - Ditetragonal Dipyramidal H-M Symbol (4/m 2/m 2/m) Space Group: P4/mm
- **X Ray Diffraction:** By Intensity(I/I₀): 2.179(1) 1.094(0.8) 1.163(0.8)

Physical Properties

- **Color:** white.
- **Density:** 14.9
- **Diaphaniety:** Opaque
- **Habits:** Microscopic Crystals - Crystals visible only with microscopes., ,
- **Hardness:** 5 - Apatite
- **Luster:** Metallic