

Crystal Data: Orthorhombic. *Point Group:* 2/m 2/m 2/m. As crystallites or crystalline aggregates to 400 nm; or as pseudomorphs of pyroxene clasts within a shock melt vein.

Physical Properties: *Cleavage:* n.d. *Tenacity:* n.d. *Fracture:* n.d. *Hardness:* = n.d. *D(meas.):* = n.d. *D(calc.):* = n.d.

Optical Properties: *Color:* n.d. *Streak:* n.d. *Luster:* n.d.
Optical Class: n.d.

Cell Data: *Space Group:* Pnma. *a* = 5.02(3) *b* = 6.90(3) *c* = 4.81(2)

X-ray Powder Pattern: Tenham L6 chondrite meteorite.
2.456 (100), 1.400 (76), 1.743 (52), 1.444 (41), 2.081 (37), 1.924 (37), 2.175 (34)

Chemistry:	(1)	(2)
SiO ₂	55.6	59.85
MgO	27.9	40.15
FeO	13.7	
Al ₂ O ₃	0.2	
Na ₂ O	0.9	
CaO	0.9	
MnO	0.49	
TiO ₂	0.19	
Cr ₂ O ₃	0.13	
K ₂ O	0.04	
Total	100.05	100.00

(1) Tenham L6 chondrite meteorite; average electron microprobe analysis; corresponds to (Mg_{0.75}Fe_{0.20}Na_{0.03}Ca_{0.02}Mn_{0.01})Si_{1.00}O₃. (2) MgSiO₃.

Mineral Group: Perovskite supergroup, bridgmanite group.

Occurrence: The dominant mineral of the silicate lower mantle of the Earth. As an impact-induced shock-metamorphic phase enclosed in (Mg,Fe)SiO₃ glass in meteorites.

Association: Akimotoite, ringwoodite, clinopyroxene with dominant diopside and jadeite components, ringwoodite, majorite, periclase, wadsleyite, troilite, iron.

Distribution: In the Tenham L6 chondrite meteorite [TL].

Name: Honors Percy W. *Bridgman* (1882-1961), 1946 Nobel laureate in Physics for his contributions to high-pressure mineralogy and research in general. Previously MgSiO₃-perovskite.

Type Material: National Museum of Natural History, Washington D.C., USA (USNM 7703).

References: (1) Tschauer, O., C. Ma, J.R. Beckett, C. Prescher, V.B. Prakapenka, and G.R. Rossman (2014) Discovery of bridgmanite, the most abundant mineral in Earth, in a shocked meteorite. *Science*, 346(6213), 1100-1102. (2) Williams, P.A., F. Hatert, M. Pasero, and S.J. Mills (2014) IMA Commission on new minerals, nomenclature and classification Newsletter 21. New minerals and nomenclature modifications approved in 2014. *Mineral. Mag.*, 78, 798.