

Crystal Data: Monoclinic. *Point Group:* 2/m. As grains, to 0.01 mm; as aggregates, to 0.4 mm.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* n.d. *Hardness =* n.d.
D(meas.) = n.d. D(calc.) = 6.953

Optical Properties: Transparent. *Color:* Orange to reddish brown; bluish under SW and LW UV light. *Streak:* White.

Luster: Adamantine to vitreous.

Optical Class: n.d. n(calc.) = 2.20

Cell Data: *Space Group:* P2/c. $a = 4.7027(15)$ $b = 5.6894(11)$ $c = 4.9413(9)$
 $\beta = 90.70(2)^\circ$ $Z=2$

X-ray Powder Pattern: Huanzala mine, Bolognesi Province, Ancash Department, Peru.
3.73 (100), 2.91 (94), 2.93 (83), 4.70 (74), 3.63 (39), 2.47 (39), 2.18 (32)

| Chemistry: | (1) | (2) |
|-----------------|--------|--------|
| WO ₃ | 84.81 | 85.19 |
| MgO | 12.49 | 14.81 |
| MnO | 1.78 | |
| FeO | 1.39 | |
| CaO | 0.02 | |
| Total | 100.47 | 100.00 |

(1) Huanzala mine, Bolognesi Province, Ancash Department, Peru; average of 10 electron microprobe analyses, corresponding to (Mg_{0.85}Mn_{0.07}Fe_{0.05})_{Σ=0.97}W_{1.01}O₄. (2) MgWO₄.

Mineral Group: Wolframite group.

Occurrence: As inclusions in scheelite in the Mg-metasomatized contact skarns of an intrusive granodiorite and quartz porphyry.

Association: Scheelite, enargite, pyrite, sphalerite, quartz, calcite, 'sericite', chlorite, dolomite, sellaite, talc, phlogopite.

Distribution: Huanzala mine, Huallanca district, Bolognesi Province, Ancash Department, Peru.

Name: For the first described locality, the Huanzala mine, Peru.

Type Material: National Museum of Nature and Science, Tokyo, Japan (catalog no. NSM-MF15366).

References: (1) Miyawaki, R., K. Yokoyama, T. Matsubara, I. Furuta, A. Gomi, and R. Murakami (2010) Huanzalaite, MgWO₄, a new mineral species from the Huanzala Mine, Peru. *Can. Mineral.*, 48, 105–112. (2) (2010) *Amer. Mineral.*, 95, 1598 (abs. ref. 1).