

**Jahnsite-(NaMnMn)**

**Crystal Data:** Monoclinic. *Point Group:* 2/m. Data pending full publication.

**Physical Properties:** Data pending full publication.

**Optical Properties:** Data pending full publication.

**Cell Data:** *Space Group:* P2/a.  $a = 15.136(1)$   $b = 7.2035(3)$   $c = 9.9876(6)$   $\beta = 110.361(5)^\circ$   $Z = 2$

**X-ray Powder Pattern:** Wiperaminga Hill West quarry, South Australia, Australia.  
2.851 (100), 9.310 (58), 3.551 (34), 2.608 (27), 5.035 (26), 4.664 (25), 4.940 (24)

**Chemistry:** Data pending full publication.

**Mineral Group:** Jahnsite group, jahnsite subgroup;  $\text{Fe}^{3+} > \text{Al}$  in the M(3) structural site.

**Occurrence:** A low temperature, secondary mineral formed by alteration of primary phosphates in zoned granitic pegmatite.

**Association:** Data pending full publication.

**Distribution:** From Wiperaminga Hill West quarry, Boolcoomatta Reserve, Olary Province, South Australia, Australia.

**Name:** Root name, *Jahnsite*, indicates a member of the group with  $\text{M}(3) = \text{Fe}^{3+}$ ; the suffix indicates sequentially the dominant atom in the X, M(1), and M(2) structural positions.

**Type Material:** South Australian Museum, Adelaide, South Australia, Australia (G34799).

**References:** (1) Elliott, P. and A.R. Kampf (2019) Jahnsite-(NaMnMn), IMA 2019-051. CNMNC Newsletter No. 52; Mineral. Mag., 83, 891. (2) (2021) Amer. Mineral., 106, 1362-1363 (abs. ref. 1).