

Crystal Data: Hexagonal. *Point Group:* 6. As aggregates of acicular to fibrous crystals to 2 mm.

Physical Properties: *Cleavage:* Distinct on $\{10\bar{1}0\}$. *Fracture:* Uneven. *Tenacity:* Brittle.
Hardness = 2-3 D(meas.) = n.d. D(calc.) = 1.79

Optical Properties: Transparent. *Color:* Colorless (crystals); white (aggregates). *Streak:* White.
Luster: Vitreous (crystals); silky (aggregates).
Optical Class: Uniaxial (-). $\omega = 1.497(2)$ $\epsilon = 1.470(2)$

Cell Data: *Space Group:* $P6_3$. $a = 11.0459$ $c = 10.6150$ $Z = 2$

X-ray Powder Pattern: Suisho-dani valley, Ise City, Mie Prefecture, Japan.
9.543 (100), 2.525 (69), 4.636 (40), 3.821 (33), 2.729 (31), 2.174 (30), 1.768 (28)

Chemistry:	(1)	(2)
CaO	28.20	27.84
Al ₂ O ₃	7.60	8.44
SiO ₂	1.17	
SO ₃	0.84	
B ₂ O ₃	[5.47]	5.76
CO ₂	[7.49]	7.28
H ₂ O	[50.02]	50.68
Total	100.80	100.00

(1) Suisho-dani valley, Ise City, Mie Prefecture, Japan; average of 5 electron microprobe analyses supplemented by FTIR spectroscopy, TG and DTA; H₂O, CO₂, B₂O₃ calculated; corresponding to $\text{Ca}_3\text{Al}_{0.89}\text{Si}_{0.12}(\text{CO}_3)_{1.02}[\text{B}(\text{OH})_4]_{0.94}(\text{SO}_4)_{0.06}[(\text{OH})_{5.96}\text{O}_{0.04}]_{\Sigma=6} \cdot 11.71\text{H}_2\text{O}$. (2) $\text{Ca}_3\text{Al}(\text{CO}_3)[\text{B}(\text{OH})_4](\text{OH})_6 \cdot 12\text{H}_2\text{O}$.

Mineral Group: Ettringite group.

Occurrence: In cavities in an altered gabbro xenolith in serpentized dunite, where rims of the xenoliths were hydrothermally altered.

Association: Oyelite, 'hydrogarnet', xonotlite, tobermorite, bultfonteinite, apophyllite, prehnite.

Distribution: From the Suisho-dani valley, Ise City, Mie Prefecture, Japan.

Name: Honors the Japanese mineral collector, Takaharu Imayoshi (1905-1984).

Type Material: National Museum of Nature and Science, Tokyo, Japan (NSM-M43749 & M43750).

References: (1) Nishio-Hamane, D., M. Ohnishi, K. Momma, N. Shimobayashi, R. Miyawaki, T. Minakawa, and S. Inaba (2015) Imayoshiite, $\text{Ca}_3\text{Al}(\text{CO}_3)[\text{B}(\text{OH})_4](\text{OH})_6 \cdot 12\text{H}_2\text{O}$, a new mineral of the ettringite group from Ise City, Mie Prefecture, Japan. *Mineral. Mag.*, 79(2), 413-423.
(2) (2016) *Amer. Mineral.*, 101, 2571 (abs. ref. 1).