

Crystal Data: Monoclinic, pseudohexagonal. *Point Group:* n.d. As fibrous [010], flattened pseudohexagonal crystals, to 3 mm, typically in rosettelike aggregates.

Physical Properties: *Cleavage:* On {h0l}, one or more sets. *Tenacity:* Slightly flexible. Hardness = n.d. $D(\text{meas.}) = \sim 1.8$ $D(\text{calc.}) = 1.790$

Optical Properties: Transparent. *Color:* Colorless to milky white. *Luster:* Vitreous, silky in aggregates.

Optical Class: Biaxial (+). *Orientation:* $Z = b$. *Dispersion:* Very weak. $\alpha = 1.485(4)$
 $\beta = 1.494(4)$ $\gamma = 1.505(2)$ $2V(\text{meas.}) = \text{Very large}$.

Cell Data: *Space Group:* n.d. $a = 23.49(2)$ $b = 6.164(6)$ $c = 21.91(2)$ $\beta = 114.91(9)^\circ$
 $Z = 12$

X-ray Powder Pattern: Brosso mine, Italy.

9.54 (100), 8.12 (40), 4.56 (21), 3.110 (19), 7.80 (18), 7.53 (14), 2.233 (14)

Chemistry:

	(1)	(2)
CO ₂	18.57	17.02
B ₂ O ₃	12.70	13.47
MgO	31.60	31.18
H ₂ O	37.44	38.33
Total	100.31	100.00

(1) Brosso mine, Italy; average of two analyses, CO₂ and H₂O by elemental analyzer; corresponding to $\text{Mg}_{2.03}(\text{HBO}_3)_{0.94}(\text{CO}_3)_{1.09} \cdot 4.91\text{H}_2\text{O}$. (2) $\text{Mg}_2(\text{HBO}_3)(\text{CO}_3) \cdot 5\text{H}_2\text{O}$.

Occurrence: A rare secondary mineral on tunnel surfaces in an abandoned mine in weathering ludwigite-magnetite skarn.

Association: Ludwigite, magnetite.

Distribution: From the Brosso mine, northwest of Ivrea, Piedmont, Italy.

Name: For the Canavese district, in which the mine that produced the first specimens is located.

Type Material: Municipal Natural History Museum, Milan, 17349, M30079, M30099, M300100, M300102; National Museum of Natural History, Washington, D.C., USA, 148483–148485; University of Florence, Florence; University of Torino, Torino, Italy; National School of Mines, Paris, France; The Natural History Museum, London, England, 1981,468.

References: (1) Ferraris, G., M. Franchini-Angela, and P. Orlandi (1978) Canavesite, a new carboborate mineral from Brosso, Italy. *Can. Mineral.*, 16, 69–73. (2) (1979) *Amer. Mineral.*, 64, 652 (abs. ref. 1).