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Crystal Data: Orthorhombic. *Point Group:* n.d. As slightly schistose, friable masses of minute fibrous particles, less than 10 μ m in length.

Physical Properties: Tenacity: Friable. Hardness = 2-3 D(meas.) = 1.9(1) D(calc.) = 2.54

Optical Properties: Transparent to translucent. Color: Whitish green. Optical Class: Biaxial. n = < 1.55; birefringence $\sim 0.01-0.02$. 2V(meas.) = n.d.

Cell Data: Space Group: n.d. a = 13.5 b = 26.9 c = 5.24 Z = 4

X-ray Powder Pattern: Near Bonao, Dominican Republic. 12.2 (100), 2.58 (35), 3.33 (30), 2.62 (30), 2.44 (30), 3.19 (25), 2.39 (20)

Chemistry:

	(1)	(2)
SiO_2	45.93	49.2
$Al_2 \bar{O}_3$	0.39	
Cr_2O_3	0.45	
FeO	1.99	< 0.03
NiO	26.7	23.6
MgO	8.46	9.26
LOI	15.0	[18.0]
Total	98.92	[100.0]

(1) Near Bonao, Dominican Republic; corresponds to $(Ni_{2.66}Mg_{1.55}Fe_{0.22}Al_{0.06}Cr_{0.04})_{\Sigma=4.53}$ Si_{5.71}O₁₆•6.22H₂O. (2) Do.; average of five analyses by electron microprobe and other methods; loss on ignition by difference, taken as H₂O; corresponds to $(Ni_{2.32}Mg_{1.68})_{\Sigma=4.00}Si_6O_{16}\bullet7.30H_2O$.

Occurrence: In garnierite veins which cut an extensive laterite, associated with a serpentinized harzburgite massif (near Bonao, Dominican Republic).

Association: Sepiolite, talc, quartz (near Bonao, Dominican Republic).

Distribution: From near Bonao, Dominican Republic. In the USA, from near Glamis, Imperial Co., California.

Name: For the familiar name "Falcondo" of the company operating the mine in the Dominican Republic where the mineral was first found.

Type Material: Royal Ontario Museum, Toronto, Canada, M34324.

References: (1) Springer, G. (1976) Falcondoite, nickel analogue of sepiolite. Can. Mineral., 14, 407–409.