Crystal Data: Hexagonal. Point Group: $\frac{3}{2}$ 2/m, 3m, or 32. As grains <1 μ m; earthy aggregates.

Physical Properties: Cleavage: None observed. Fracture: n.d. Tenacity: n.d.

Hardness = 1-1.5 D(meas.) = n.d. D(calc.) = 2.857

Optical Properties: Earthy. Color: Dark green to brown, dark gray-green. Streak: n.d.

Luster: n.d.

Optical Class: n(average) = 1.72(1) Nonpleochroic.

Cell Data: Space Group: $R\bar{3}$ m, R3m, or R32. a = 6.206(2) c = 46.184(18) Z = 6

X-ray Powder Pattern: Dronino iron meteorite.

7.76 (100), 3.88 (40), 2.64 (25), 1.965 (15), 1.546 (10), 1.536 (10), 1.337 (10b)

(1)

Chemistry:

	(1)
NiO	36.45
FeO	12.15
Fe_2O_3	17.55
H_2O	[23.78]
Cl	13.01
$-O = Cl_2$	2.94
Total	100.00

(1) Dronino iron meteorite; average electron microprobe analysis supplemented by IR spectroscopy, H₂O by difference; corresponds to Ni_{2.16}Cl_{1.62}(OH)_{7.10}•2.28H₂O.

Mineral Group: Hydrotalcite supergroup, hydrotalcite group.

Occurrence: In a fragment of a weathered iron meteorite.

Association: Taenite, violarite, troilite, chromite, goethite, lepidocrocite, nickelbischofite, amorphous Fe³⁺ hydroxides.

Distribution: From the Dronino iron meteorite.

Name: For the village of *Dronion*, Russia near which the sample was collected.

Type Material: A.E. Fersman Mineralogical Museum, RAS, Moscow, Russia (3676/1).

References: (1) Chukanov, N.V., I.V. Pekov, L.A. Levitskaya, and A.E. Zadov (2009) Droninoite, Ni₃Fe³⁺Cl(OH)₈·2H₂O, a new hydrotalcite-group mineral species from the weathered Dronino meteorite. Geology of Ore Deposits, 51, 767-773.