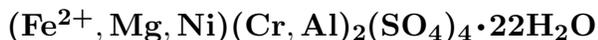


Redingtonite



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Crystal Data: Monoclinic (by analogy to the halotrichite group). *Point Group:* 2. Fibrous, in massive parallel aggregates.

Physical Properties: Hardness = n.d. $D(\text{meas.}) = 1.761$ $D(\text{calc.}) = \text{n.d.}$ Soluble in H_2O .

Optical Properties: Semitransparent. *Color:* White, purple on fractures across the fiber length. *Luster:* Silky.

Optical Class: Biaxial, weakly birefringent. *Orientation:* Extinction inclined $\leq 38^\circ$. $\alpha = \text{n.d.}$
 $\beta = \text{n.d.}$ $\gamma = \text{n.d.}$ $2V(\text{meas.}) = \text{n.d.}$

Cell Data: *Space Group:* n.d. $Z = \text{n.d.}$

X-ray Powder Pattern: n.d.

Chemistry:

	(1)	(2)
SO_3	35.35	34.98
Al_2O_3	5.14	5.57
Fe_2O_3	0.19	
Cr_2O_3	7.51	8.30
FeO	4.58	7.85
MnO	trace	
NiO	1.00	
MgO	1.85	
H_2O^+	14.34	
H_2O^-	27.08	
H_2O		43.30
insol.	3.46	
Total	100.50	100.00

(1) Redington mine, California, USA; corresponds to $(\text{Fe}_{0.60}\text{Mg}_{0.43}\text{Ni}_{0.13})_{\Sigma=1.16}(\text{Al}_{0.95}\text{Cr}_{0.93})_{\Sigma=1.88}(\text{SO}_4)_4 \cdot 21.57\text{H}_2\text{O}$. (2) $\text{Fe}(\text{Cr}, \text{Al})_2(\text{SO}_4)_4 \cdot 22\text{H}_2\text{O}$ with Cr:Al = 1:1.

Mineral Group: Halotrichite group.

Occurrence: An oxidation product of pyrite.

Association: Magnesiocopiapite, pyrite.

Distribution: From the Redington mercury mine, Knoxville, Napa Co., California, USA.

Name: For its occurrence in the Redington mine, California, USA.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 529.