\odot 2001-2005 Mineral Data Publishing, version 1

Crystal Data: Cubic. Point Group: $4/m \overline{3} 2/m$. As irregular grains, to ~0.1 mm; these may form lamellar intergrowths with hematite.

Physical Properties: Hardness = n.d. VHN = 920–1081, 985 average (100 g load). D(meas.) = n.d. D(calc.) = [5.25]

Optical Properties: Opaque. Color: Black; in reflected light, gray. Streak: Black. Optical Class: Isotropic. R: (470) 22.7, (546) 21.7, (589) 21.0, (650) 20.0

Cell Data: Space Group: Fd3m. a = 8.369 Z = 8

X-ray Powder Pattern: Baie Verte, Canada. 2.517 (10), 1.479 (6), 2.96 (5), 1.613 (4), 4.79 (3), 2.100 (3), 1.087 (3)

Chemistry:

	(1)
Al_2O_3	2.6
Fe_2O_3	65.7
FeO	1.7
MnO	0.2
CoO	0.6
CuO	27.8
ZnO	0.7
MgO	1.8
Total	101.1

(1) Baie Verte, Canada; by electron microprobe, Fe^{2+} : Fe^{3+} calculated to satisfy the spinel structure; corresponding to $(\mathrm{Cu}_{0.80}\mathrm{Mg}_{0.10}\mathrm{Fe}_{0.05}^{2+}\mathrm{Co}_{0.02}\mathrm{Zn}_{0.02}\mathrm{Mn}_{0.01})_{\Sigma=1.00}(\mathrm{Fe}_{1.89}^{3+}\mathrm{Al}_{0.11})_{\Sigma=2.00}\mathrm{O}_4$.

Mineral Group: Spinel group.

Occurrence: In highly oxidized material, once spontaneously ignited, in an ore dump.

Association: Pyrite, chalcopyrite, sphalerite, pyrrhotite, hematite.

Distribution: On the property of Consolidated Rambler Mines Limited, near Baie Verte, Newfoundland, Canada.

Name: For the mineral's copper, CUPRum, content and having the *spinel* structure.

Type Material: National Museum of Natural History, Washington, D.C., USA, 128673.

References: (1) Nickel, E.H. (1973) The new mineral cuprospinel ($CuFe_2O_4$) and other spinels from an oxidized ore dump at Baie Verte, Newfoundland. Can. Mineral., 11, 1003–1007. (2) (1974) Amer. Mineral., 59, 381 (abs. ref. 1).