©2001 Mineral Data Publishing, version 1.2

Crystal Data: Monoclinic. *Point Group:* m. Fibers, to 0.2 μ m width, elongated along [010], to several cm. Commonly gathered in folded bundles; intergrown in parallel with brucite and chrysotile.

Physical Properties: Cleavage: On $\{001\}$, very good; parting on $\{010\}$. Tenacity: Flexible. Hardness = n.d. D(meas.) = 2.63(2) D(calc.) = 2.606

Optical Properties: Transparent. *Color:* Light brown. *Streak:* Whitish. *Luster:* Vitreous, pearly.

Optical Class: Biaxial. Pleochroism: Orange-brown || [010]; pale orange-brown \perp [010]. n = 1.605(5) 2V(meas.) = n.d.

Cell Data: Space Group: Cm. a = 36.70 b = 9.41 c = 7.291 $\beta = 101.1^{\circ}$ Z = 2

X-ray Powder Pattern: Near Sampeyre, Italy. 7.17 (100), 3.397 (55), 3.595 (45), 2.562 (40), 2.280 (35), 18.02 (25), 3.637 (20)

Chemistry:

	(1)
SiO_2	35.53
TiO_2	2.24
Al_2O_3	1.07
Cr_2O_3	0.24
FeO	4.03
MnO	0.72
MgO	39.28
H_2O	16.85
Total	99.96

(1) Near Sampeyre, Italy; by electron microprobe, average of 15 analyses, H_2O by TGA; corresponds to $(Mg_{18.88}Fe_{1.08}Ti_{0.54}Mn_{0.20}Cr_{0.06})_{\Sigma=20.76}(Si_{11.46}Al_{0.40})_{\Sigma=11.86}H_{36.26}O_{63.00}$.

Occurrence: In a network of veins crosscutting a metamorphic antigorite serpentinite, in an ophiolite.

Association: Diopside, chrysotile, brucite, magnetite, clinohumite, perovskite, uvarovite (near Sampeyre, Italy).

Distribution: In Italy, in Piedmont, at a number of localities around Sampeyre and Casteldelfino, Varaita Valley; around Crissolo, Po Valley; at Monte Nebin, Maira Valley; and around Viù, Viù Valley. From Taberg, Sweden.

Name: For Professor Carlo Sturani (1938–1976), University of Torino, Torino, Italy.

Type Material: Regional Science Museum, Torino, Italy; Natural History Museum, Vienna, Austria, L9493; National Museum of Natural History, Washington, D.C., USA, 162683.

References: (1) Compagnoni, R., G. Ferraris, and M. Mellini (1985) Carlosturanite, a new asbestiform rock-forming silicate from Val Varaita, Italy. Amer. Mineral., 70, 767–772. (2) Mellini, M., G. Ferraris, and R. Compagnoni (1985) Carlosturanite: HRTEM evidence of a polysomatic series including serpentine. Amer. Mineral., 70, 773–781. (3) Belluso, E. and G. Ferraris (1991) New data on balangeroite and carlosturanite from alpine serpentinites. Eur. J. Mineral., 3, 559–566.