**Crystal Data**: Monoclinic. *Point Group*: 2/m. As wormy aggregates of elongate to irregularly shaped cellular crystals to  $2 \times 2 \times 4 \mu m$ .

**Physical Properties**: *Cleavage*: n.d. *Tenacity*: n.d. *Fracture*: n.d. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.32

**Optical Properties**: *Color*: n.d. *Streak*: n.d. *Luster*: n.d. *Optical Class*: n.d.

**Cell Data**: Space Group: C2/c.  $a = 9.21 (17) b = 9.09 (4) c = 5.20 (2) \beta = 109.6 (9)^{\circ} Z = 4$ 

X-ray Powder Pattern: n.d.

Chemistry:		(1)
	SiO <sub>2</sub>	53.0
	$TiO_2$	0.08
	$Al_2O_3$	29.2
	FeO	0.96
	MgO	0.18
	CaO	12.5
	Na <sub>2</sub> O	4.7
	$\underline{K_2O}$	0.06
	Total	100.68

(1) Tissint martian meteorite; average electron microprobe analysis; corresponds to  $(Ca_{0.45}Na_{0.31}\square_{0.24})(Al_{0.97}Fe_{0.03}Mg_{0.01})(Si_{1.80}Al_{0.20})O_6.$ 

Mineral Group: Clinopyroxene containing 42-60 mol% of the Ca-Eskola component.

**Occurrence**: In maskelynite (shocked plagioclase) and is commonly observed included within, or in contact with, shock-melt pockets in a Martian meteorite. Perhaps forms from amorphous plagioclase during decompression.

Association: Maskelynite (shocked plagioclase).

Distribution: From the Tissint Martian meteorite [TL].

Name: For the Martian meteorite Tissint, which fell near Tissint, Morocco on 18 July 2011.

**Type Material**: Meteorite Collection of the Frank H. McClung Museum, University of Tennessee, Knoxville, USA.

**References:** (1) Ma, C., O. Tschauner, J.R. Beckett, Y. Liu, G.R. Rossman, K. Zhuravlev, V. Prakapenka, P. Dera, and L.A.Taylor (2015) Tissintite, (Ca,Na,□)AlSi<sub>2</sub>O<sub>6</sub>, a highly-defective, shock-induced, high-pressure clinopyroxene in the Tissint martian meteorite. Earth and Planetary Science Letters, 422, 194-205. (2) Rucks, M.J., M.L. Whitaker, T.D. Glotch, J.B. Parise, S.J. Jaret, T. Catalano, and M.D. Dyar (2018) Making tissintite: Mimicking meteorites in the multi-anvil. Amer. Mineral., 103, 1516-1519.