

Electron Microprobe Data

Ruff ID: **R050602**

Mineral: **Danburite**

Locality: Mogok, Burma

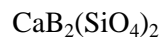
Weight Percents

Analysis	#1	#2	#3	#5	#6	#7	#8	#9	#10	#11	#13	#14	#15	#16	#17	#18	#19	Average	StDev
Al ₂ O ₃	0.04	0.07	0.09	0.05	0.04	0.07	0.07	0.06	0.05	0.05	0.07	0.04	0.07	0.06	0.07	0.07	0.06	0.06	0.01
SiO ₂	49.33	49.05	49.01	49.01	48.72	49.28	48.90	48.59	48.86	48.84	48.88	49.01	48.98	48.85	48.97	49.28	49.11	48.98	0.19
CaO	22.73	22.77	22.74	22.77	22.78	22.62	22.86	22.69	22.80	22.82	22.66	22.87	22.82	22.82	22.81	22.84	22.80	22.78	0.07
B ₂ O ₃	27.83	28.06	28.05	28.16	28.41	27.95	28.09	28.65	28.23	28.19	28.31	27.90	28.06	28.18	28.11	27.70	27.98	28.11	0.22
Totals	99.92	99.94	99.89	99.99	99.95	99.92	99.93	99.98	99.94	99.90	99.92	99.82	99.92	99.92	99.96	99.90	99.95	99.93	0.04

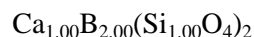
Cation numbers normalized to 8 Oxygens

																		ACN	StDev	NCN	CNISF*
Si	2.02	2.01	2.01	2.01	1.99	2.02	2.00	1.99	2.00	2.00	2.00	2.01	2.01	2.00	2.01	2.02	2.01	2.01	0.01	2.01	1.00
Ca	1.00	1.00	1.00	1.00	1.00	0.99	1.00	0.99	1.00	1.00	0.99	1.01	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00
B	1.97	1.98	1.99	1.99	2.01	1.98	1.99	2.02	2.00	1.99	2.00	1.98	1.99	1.99	1.99	1.96	1.98	1.99	0.01	1.99	2.00
Totals	4.99	5.00	5.00	5.00	5.00	4.99	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.99	5.00	5.00	0.00	5.00	

Ideal Chemistry:



Calculated Chemistry:



Trace amounts of Al

Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 20 nA

Beam Size: Spot

Date of Analysis: 03/11/06

ACN: Average Number of Cations

NCN: Normalized Cation Numbers = ACN*5/5.00

StDev: Standard Deviation

CNISF**: Cation Numbers In Structural Formulae, normalized for each structural site and charge balanced

Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	Standards
TAP	Na	Ka	20	10	600	-600	albite-Cr
TAP	F	Ka	20	10	800	-800	MgF2
TAP	Al	Ka	20	10	600	-600	kyanite
TAP	Si	Ka	20	10	600	-600	albite-Cr
TAP	Mg	Ka	20	10	500	-500	diopside
PET	K	Ka	20	10	500	-500	kspar-OR1
PET	Ti	Ka	20	10	600	-600	rutile1
PET	Ca	Ka	20	10	600	-600	diopside
LIF	Mn	Ka	20	10	500	-500	rhod-791
LIF	Fe	Ka	20	10	500	-250	fayalite