

Electron Microprobe Data

Rruff ID: **R050115**

Mineral: **Fluorite**

Locality: Isthak Valley Iskardu, N.A. Gilgit, Pakistan

Weight Percents

Analysis	#3	#4	#5	#6	#7	#8	#9	#10	#12	#13	#14	#18	#20	Average	StDev
F	49.22	49.31	49.47	49.31	48.9	49.42	48.46	49.07	49.65	49.97	48.82	49.73	48.69	49.23	0.43
Ca	50.91	51.14	51.25	50.84	50.71	51.08	51.05	50.76	50.78	51.15	51.03	51.27	51.09	51.00	0.19
Totals	100.13	100.45	100.71	100.14	99.61	100.5	99.51	99.83	100.43	101.12	99.85	100.99	99.78	100.23	0.52

Cation numbers normalized to 2 F

														ACN	StDev	NCN
Ca	0.98	0.98	0.98	0.98	0.98	0.98	1.00	0.98	0.97	0.97	0.99	0.98	1.00	0.98	0.01	1.00
Cation	0.98	0.98	0.98	0.98	0.98	0.98	1.00	0.98	0.97	0.97	0.99	0.98	1.00	0.98	0.01	1.00

Ideal Chemistry: CaF₂

Calculated Chemistry: CaF₂

Microprobe Calibration Data

Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	Standards
TAP	F	Ka	20	10	350	-600	MgF2
PET	Ca	Ka	20	10	500	-500	diopside

Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 10 nA

Beam Size: 10 microns

Date of Analysis: 05/05/2006

ACN: Average Number of Cations

NCN: Normalized Cation Numbers = ACN*1/0.98

StDev: Standard Deviation