

Electron Microprobe Data

Rruff ID: **R050419**

Mineral: **Zincite**

Locality: Sterling Hill, Sussex County, New Jersey, USA

Weight Percents

Analysis	#1	#2	#3	#4	#5	#6	#7	#9	#10	#11	#12	#13	#14	#15	#16	#17	#20	Average	StDev
MnO	0.34	0.34	0.34	0.35	0.34	0.35	0.35	0.35	0.33	0.35	0.36	0.36	0.36	0.35	0.37	0.35	0.34	0.35	0.01
ZnO	99.65	99.50	99.85	99.79	99.56	99.55	99.44	99.85	99.43	99.71	99.63	99.56	99.64	99.38	99.40	99.41	99.52	99.58	0.15
Totals	100.00	99.85	100.19	100.14	99.90	99.91	99.78	100.20	99.76	100.06	100.00	99.92	100.00	99.73	99.76	99.75	99.87	99.93	0.15

Cation numbers normalized to 1 Oxygen

																		ACN	StDev	NCN		
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	
Zn	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.00	0.99
Cation	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00

Ideal Chemistry: (Zn,Mn)O

Calculated Chemistry: (Zn_{0.99}Mn_{0.01})O

minor amounts of Ca

Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 20 nA

Beam Size: spot

Date of Analysis: 05/05/2006

ACN: Average Number of Cations

NCN: Normalized Cation Numbers = ACN*2/1.97

StDev: Standard Deviation

CNISF* = cation numbers in structural formulae and charge balanced

Microprobe Calibration Data

Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	Standards
TAP	Zn	la	20	10	400	-400	gahnite
PET	Mn	Ka	20	10	300	-200	diopside