

KYANITE STD FILE

CHANNEL	ELEMENT	PEAK	BF	BKGR OFFSET	WT % ELEMENT STD	B STD	ELEMENT GROUP	BASELINE	WINDOW	STD NAME
1	Ti	27516	0.97	500	59.951	1.000	0	0	0	Rut
1	Fe	19358	1.024	500	69.942	1.025	0	0	0	Hem
2	Si	27032	1.024	500	46.744	1.000	0	0	0	Qtz
2	K	14143	1.321	500	13.3656	1.163	0	0	0	Mic
3	Na	18389	1.162	500	11.3653	1.220	0	0	0	Jade
3	Mg	15182	1.181	500	24.024	1.070	0	0	0	En
3	Al	17672	1.608	600	19.3974	1.042	0	0	0	An

STOICHIOMETRIC KYANITE

*λ-scan
minifis Fe
present*

accepted

SiO₂ 60.085 37.079

Al₂O₃ 101.961 62.921

37.05 SiO₂
0.15 FeO
62.81 Al₂O₃

GRAIN #1

GRAIN #2

AVG

Na₂O

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

MgO

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Al₂O₃

62.78 62.39 62.35 62.15 61.90 62.45 62.16 62.17 62.59 62.08 62.44 62.38 62.357 ± .245
0.4

SiO₂

36.80 36.50 36.57 36.50 36.57 36.53 36.57 36.34 36.72 36.48 36.27 36.54 36.541 ± .127
0.3

K₂O

0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.01 0.00 0.00 0.02 0.008 ± .012

TiO₂

0.00 0.02 0.00 0.00 0.00 0.01 0.00 0.02 0.05 0.03 0.01 0.02 0.003 ± .016

FeO

0.09 0.14 0.11 0.16 0.14 0.14 0.14 0.16 0.14 0.15 0.16 0.14 0.139 ± 0.02

Total

99.70 99.04 99.06 98.81 98.62 99.17 98.87 98.72 99.50 98.74 98.98 99.09