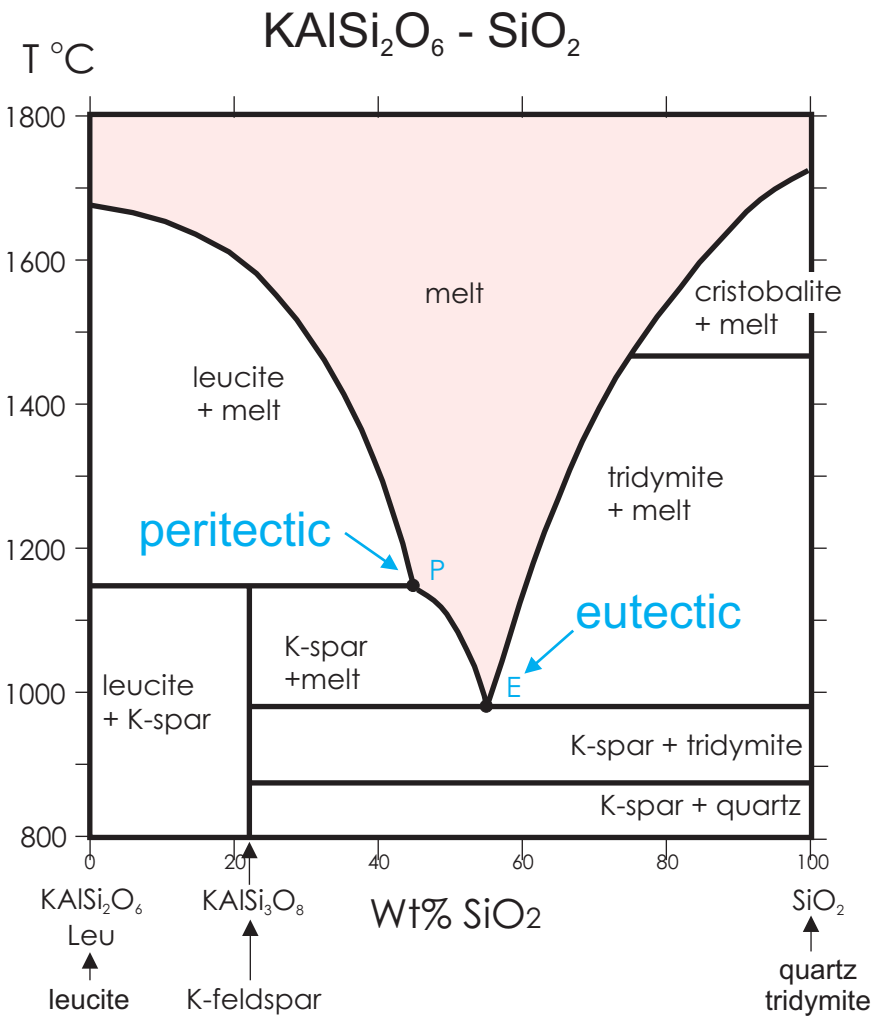
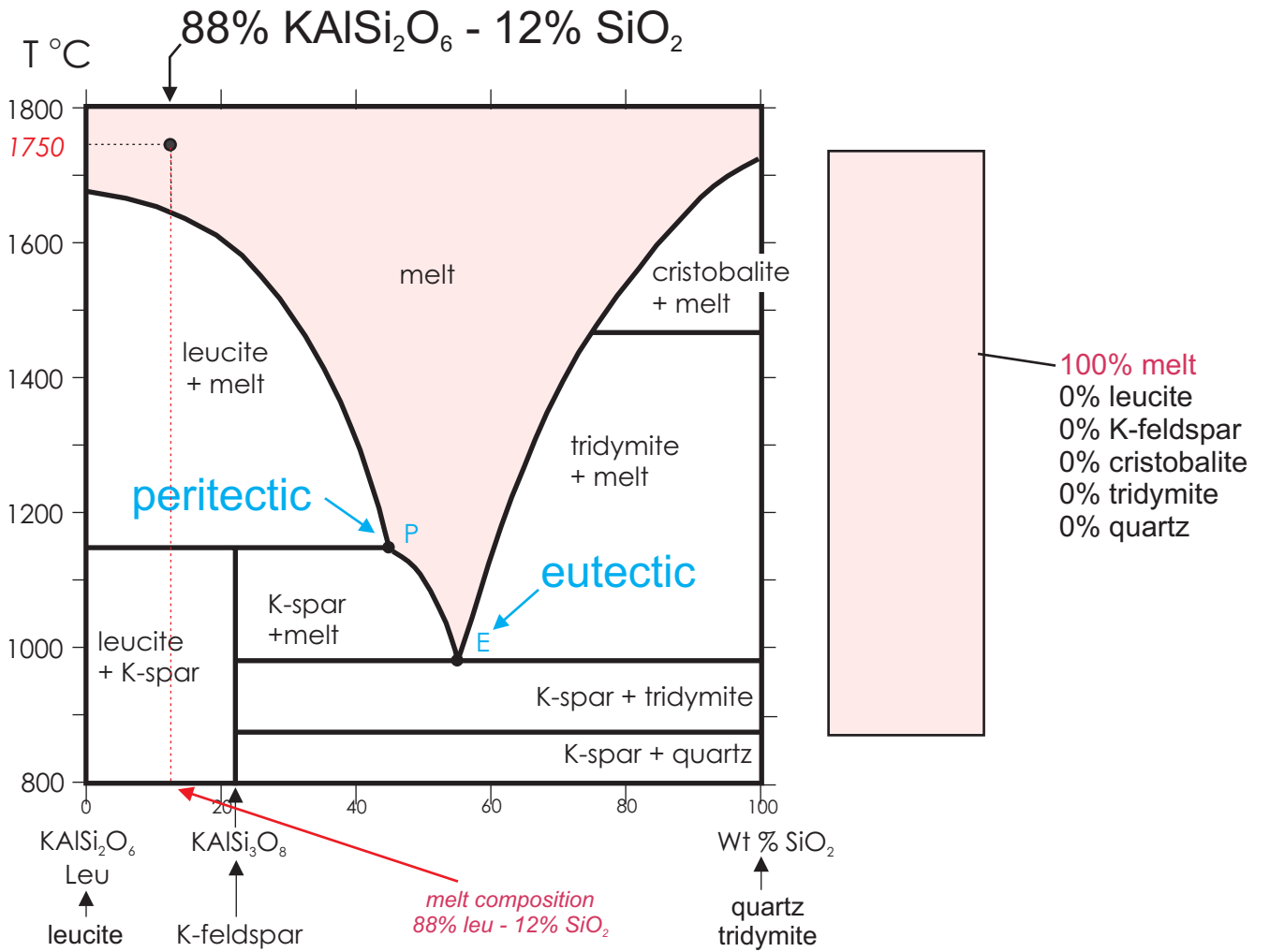
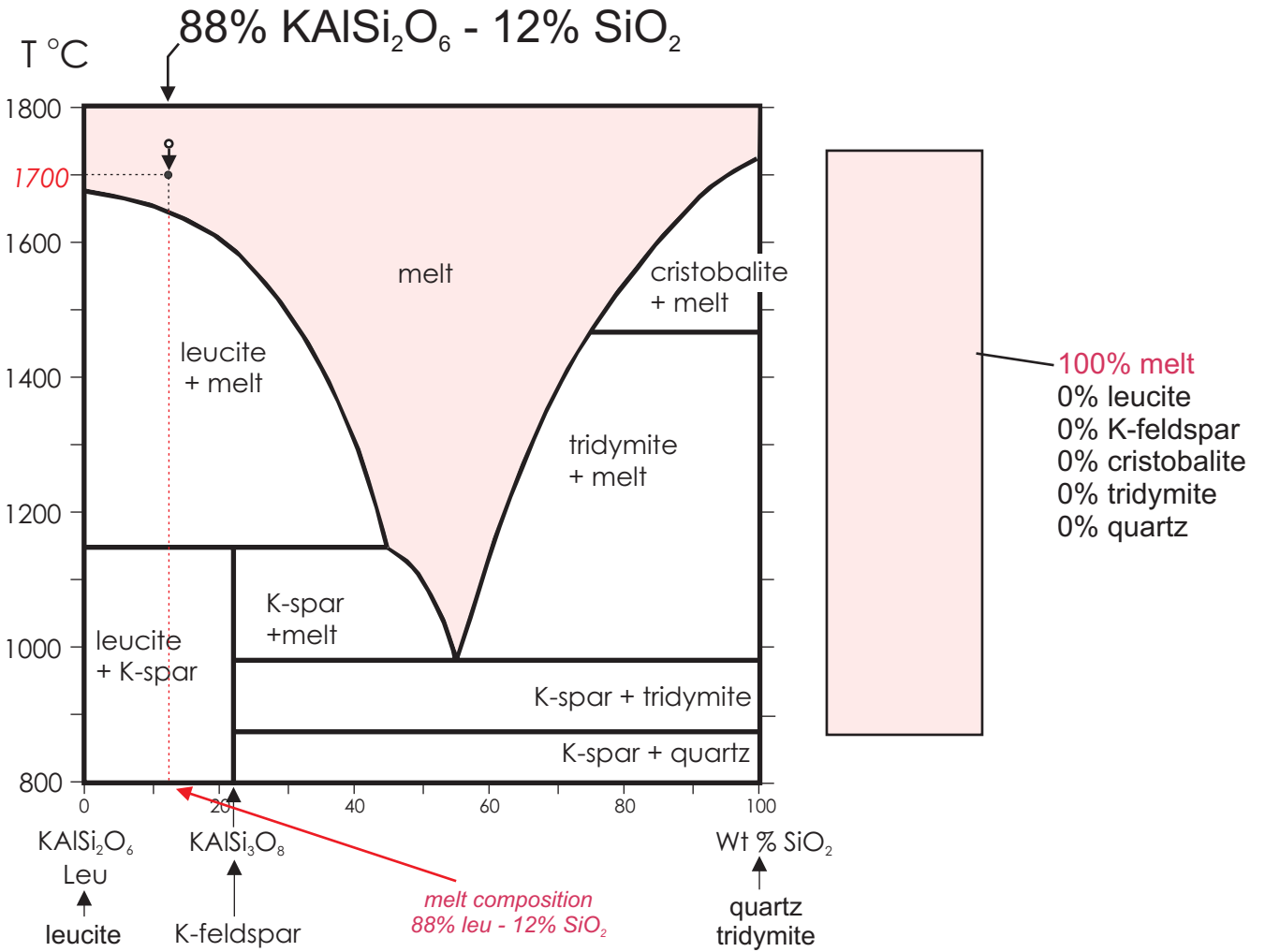
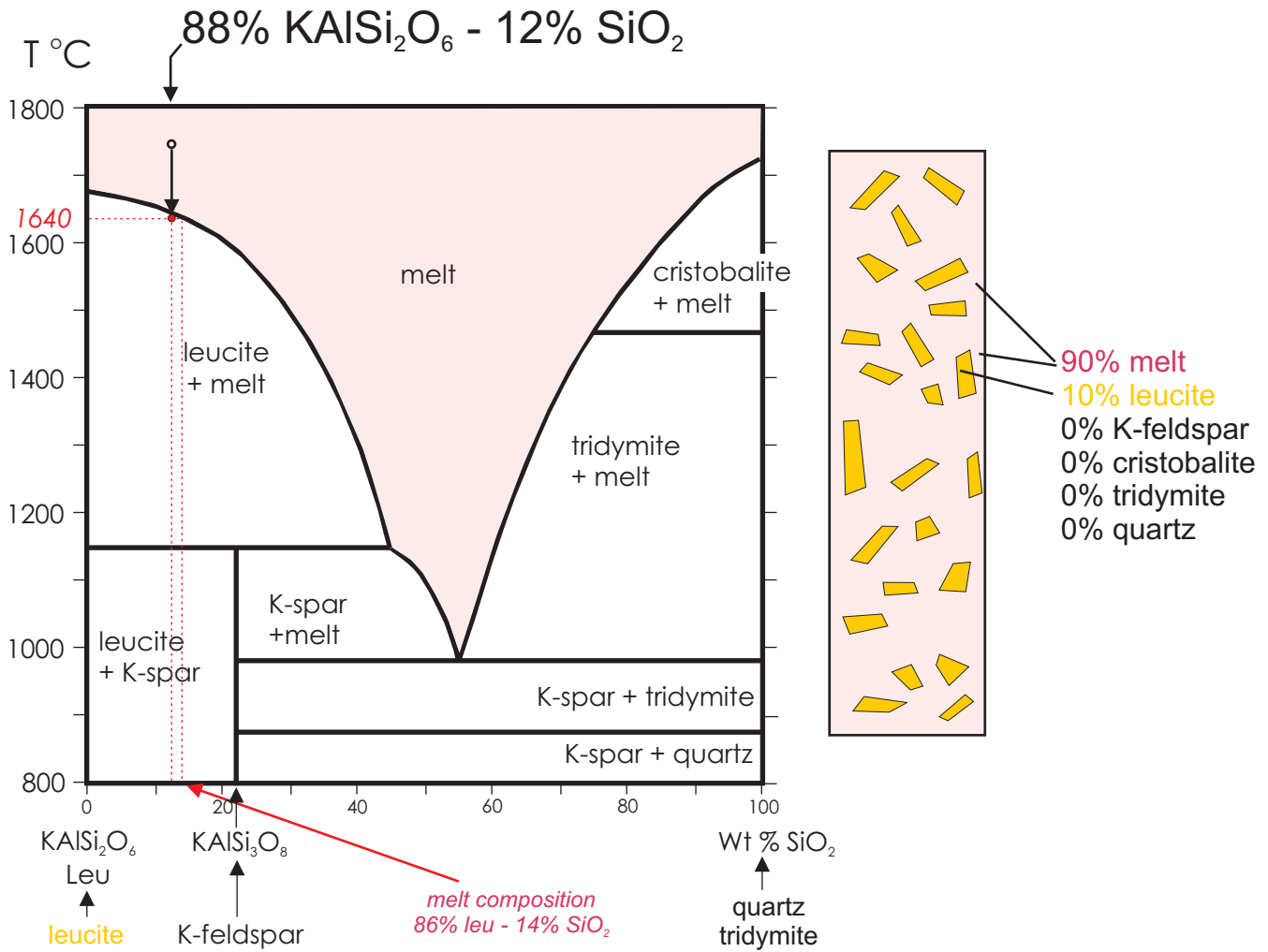
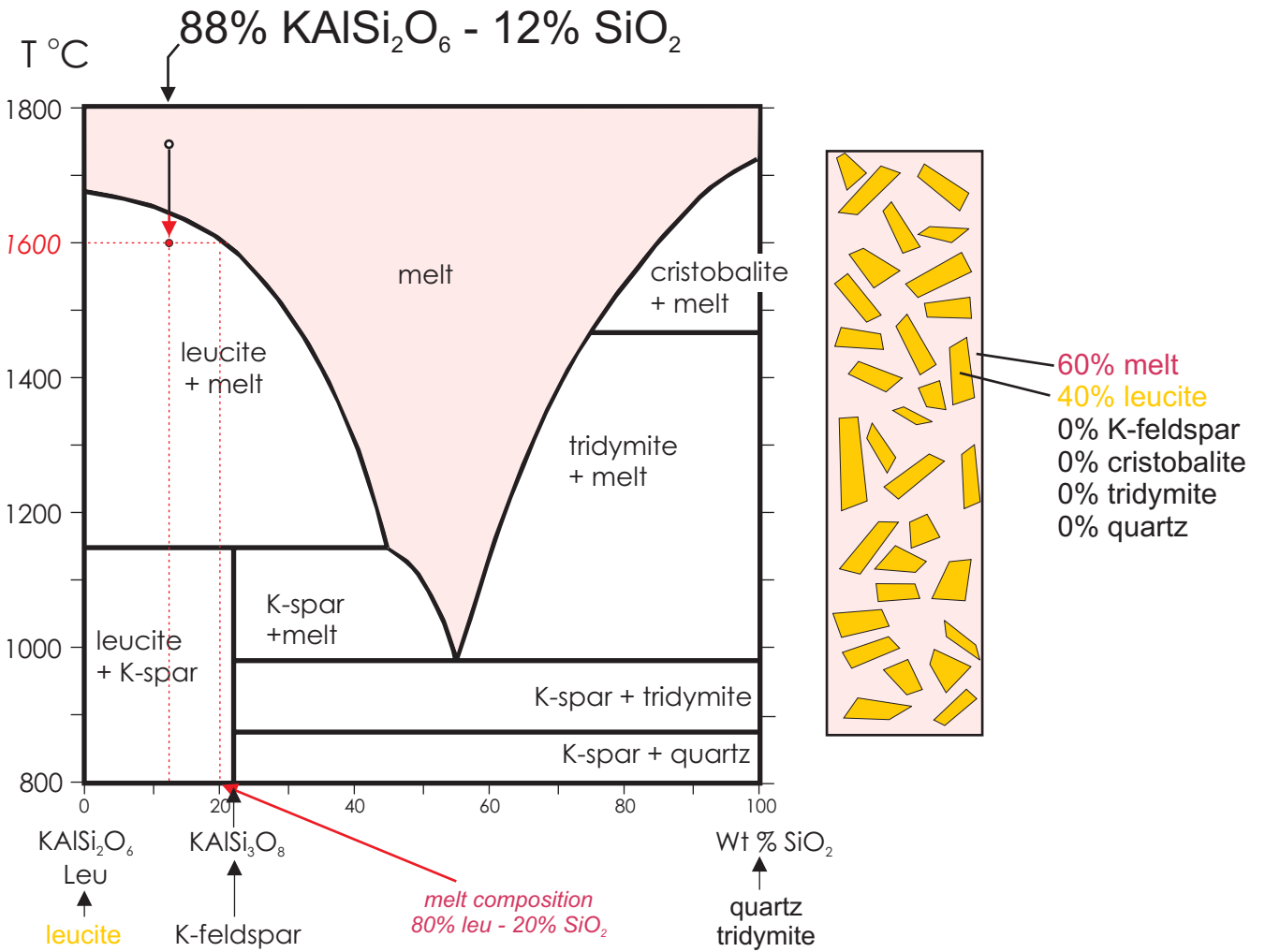
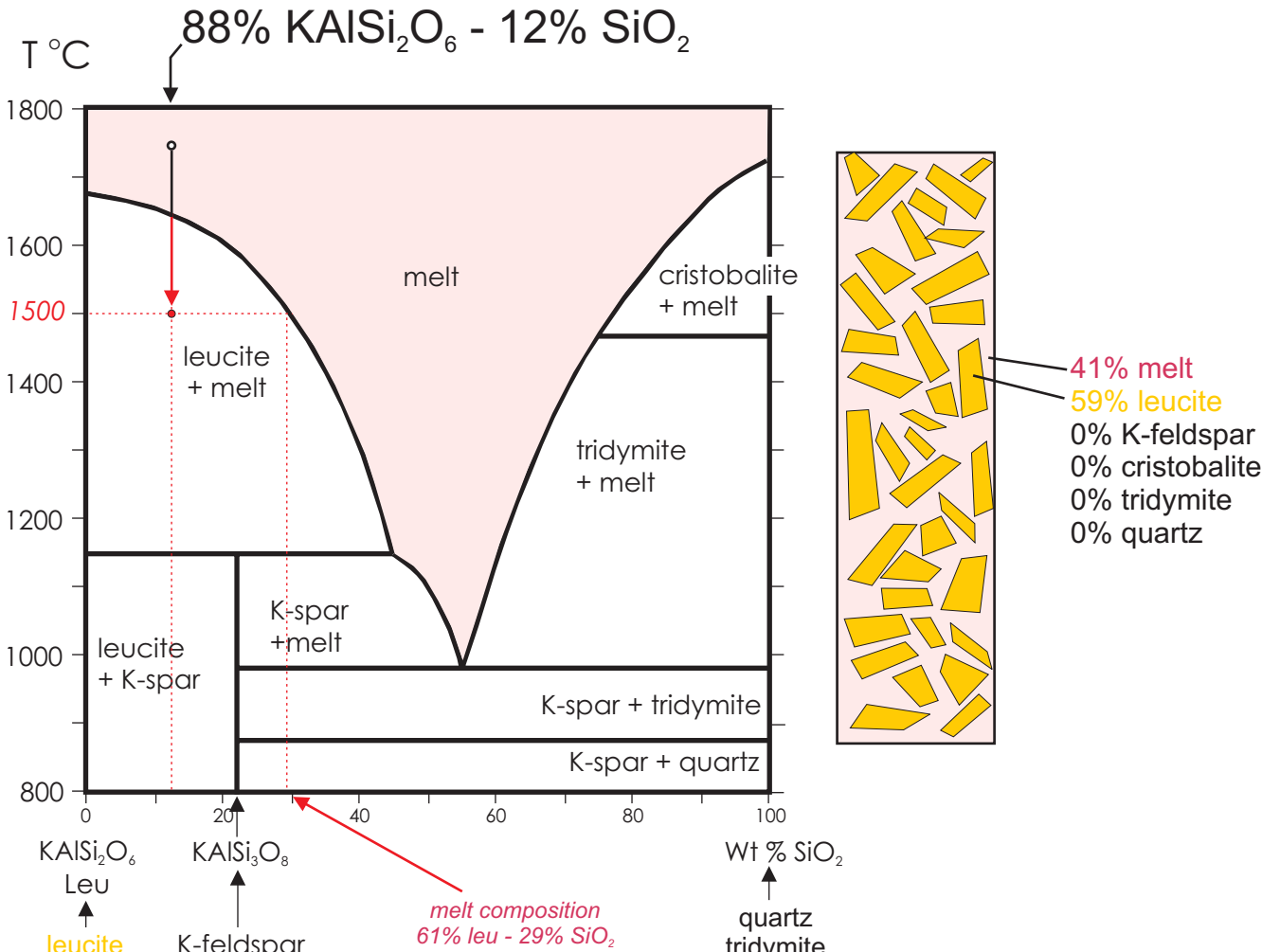

KAlSi2O6 - SiO2
T °C
1800
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
peritectic
P
eutectic
E
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
Wt% SiO2
SiO2
quartz
tridymite

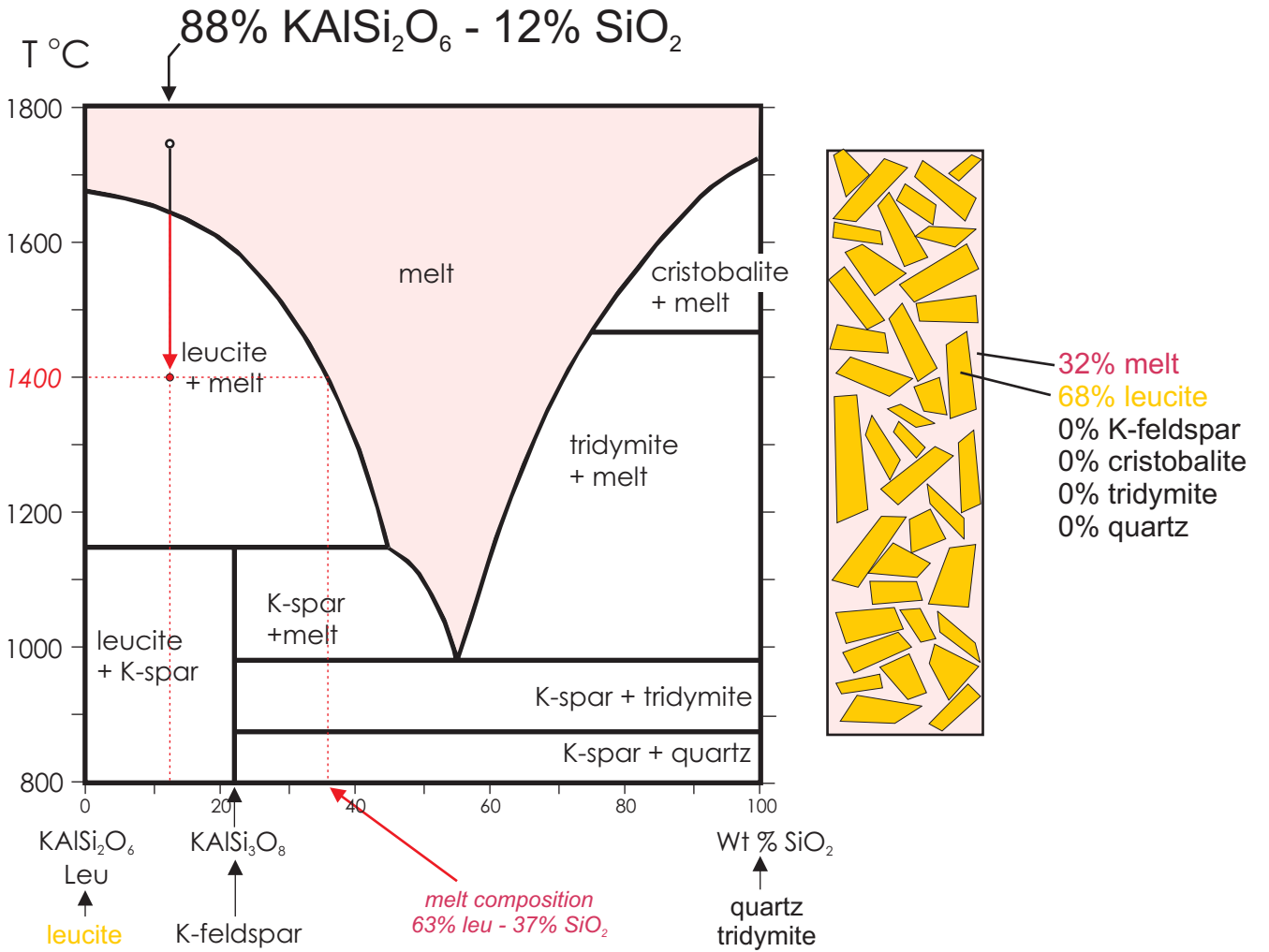

88% KAlSi2O6 - 12% SiO2
T °C
1800
1750
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
peritectic
P
eutectic
E
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
Wt % SiO2
quartz
tridymite
melt composition
88% leu - 12% SiO2
100% melt
0% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

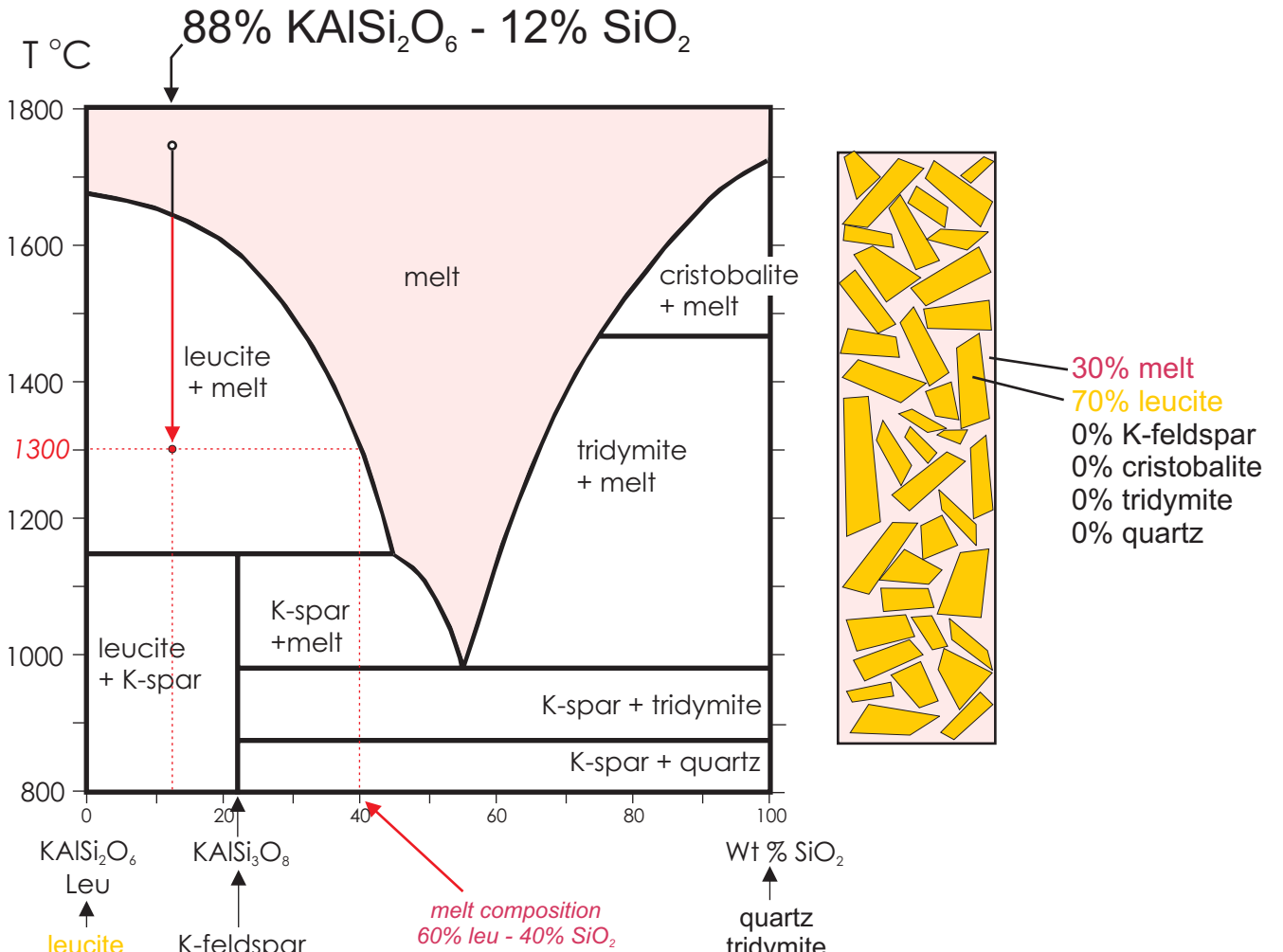

88% KAlSi2O6 - 12% SiO2
T °C
1800
1700
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
88% leu - 12% SiO2
Wt % SiO2
quartz
tridymite
100% melt
0% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

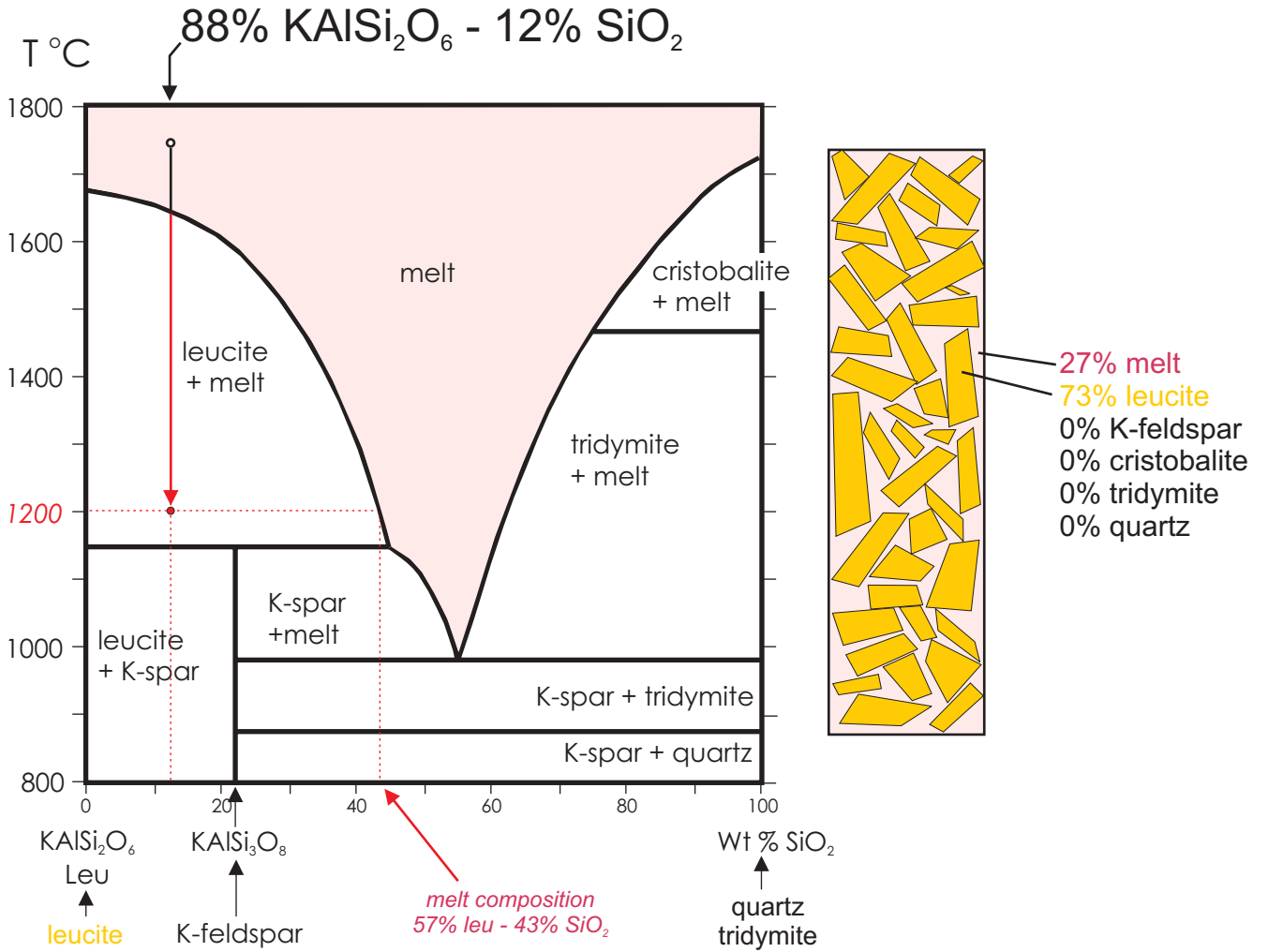

88% KAlSi2O6 - 12% SiO2
T °C
1800
1640
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
86% leu - 14% SiO2
Wt % SiO2
quartz
tridymite
90% melt
10% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

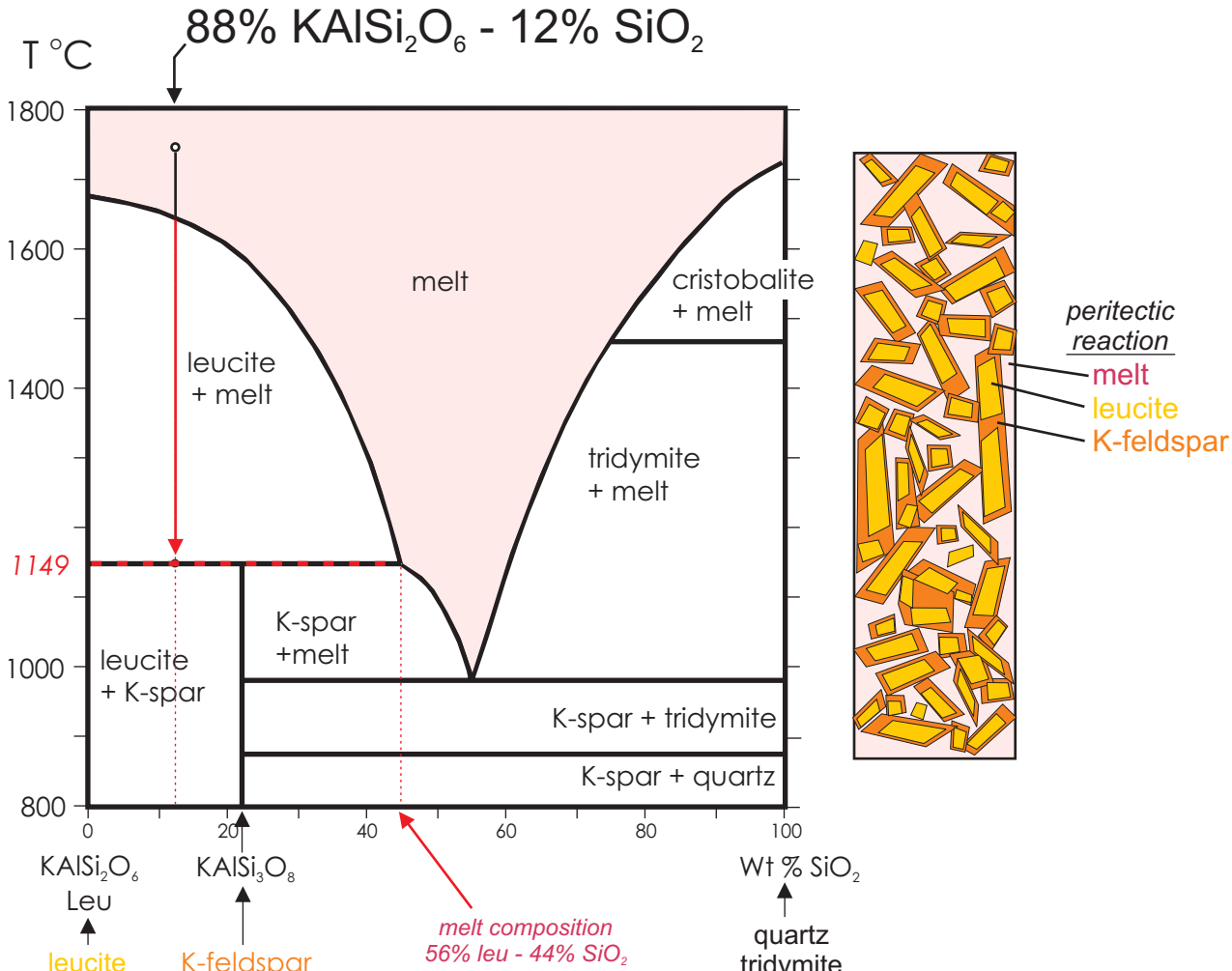

88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
80% leu - 20% SiO2
Wt % SiO2
quartz
tridymite
60% melt
40% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

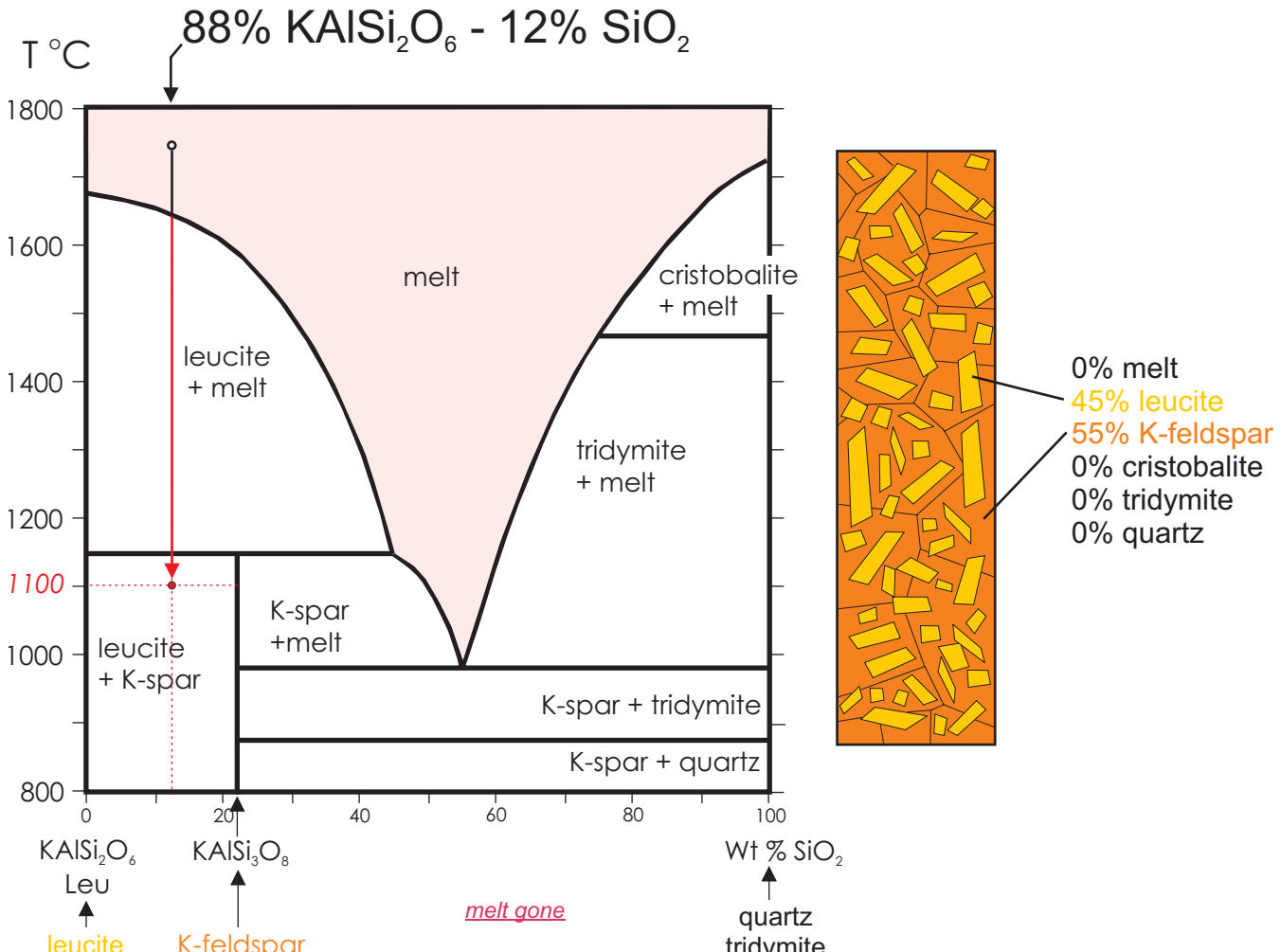

88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1500
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
61% leu - 29% SiO2
Wt % SiO2
quartz
tridymite
41% melt
59% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

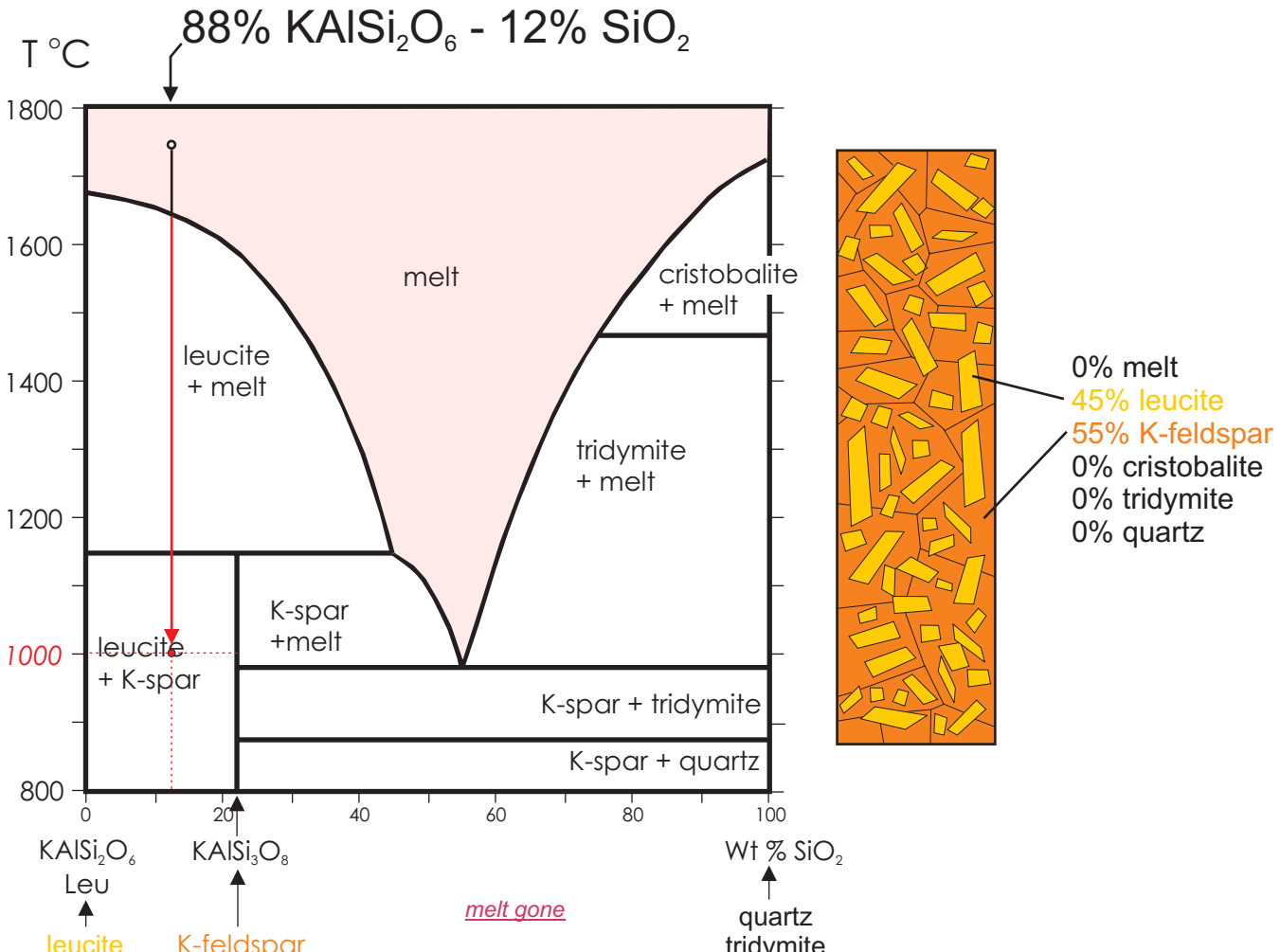

88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
63% leu - 37% SiO2
Wt % SiO2
quartz
tridymite
32% melt
68% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

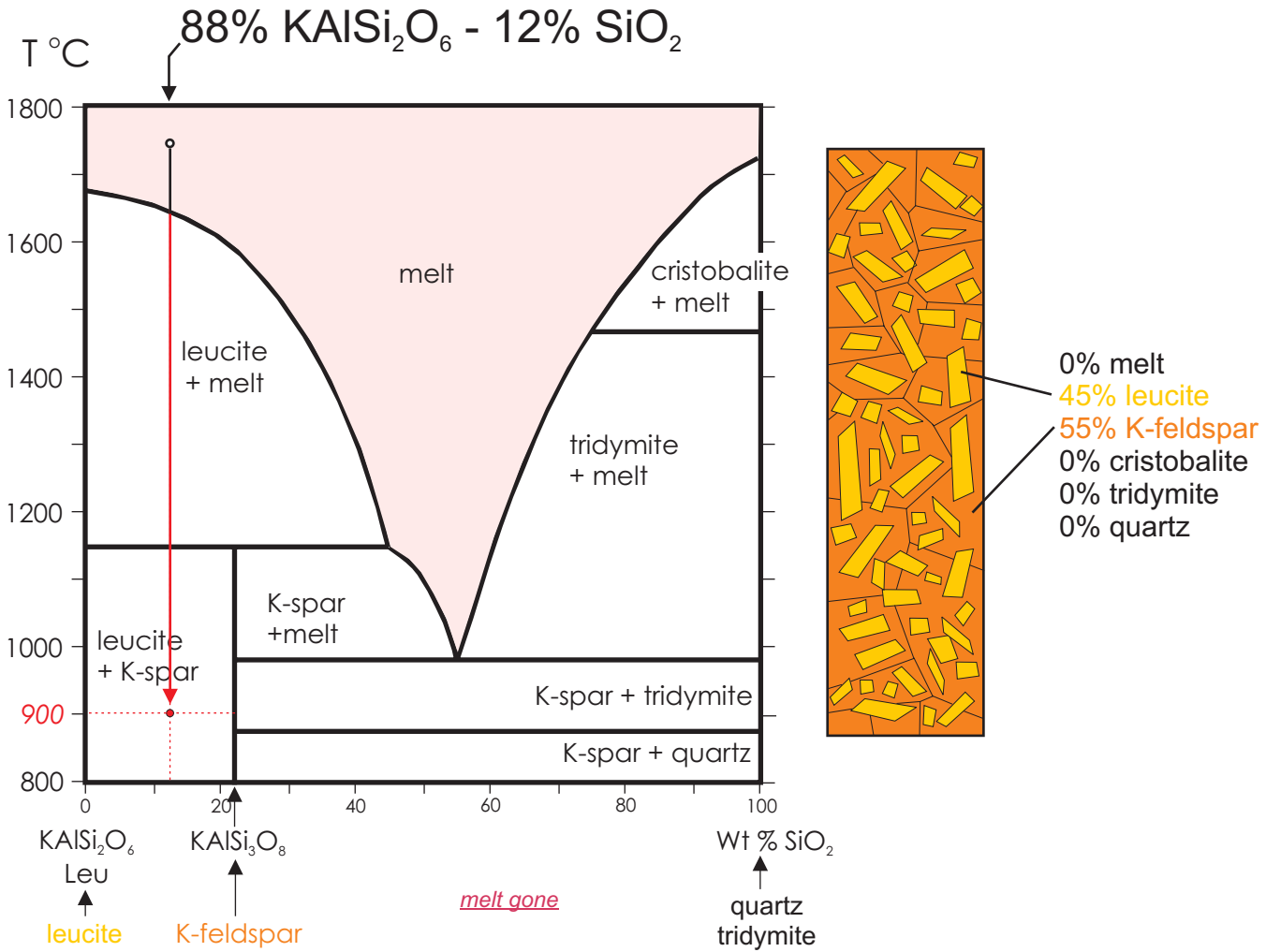

88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1300
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
60% leu - 40% SiO2
Wt % SiO2
quartz
tridymite
30% melt
70% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz

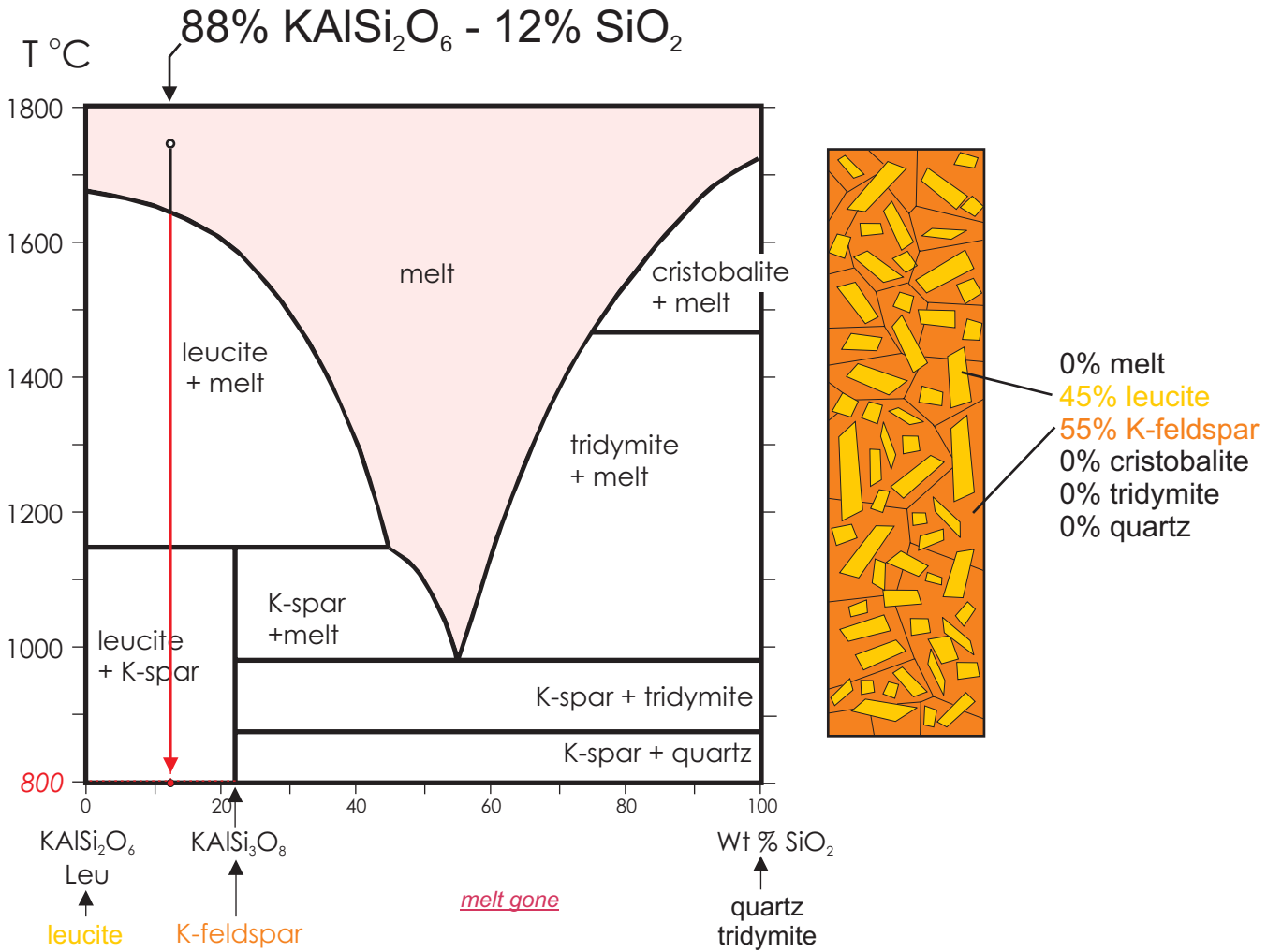

88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
57% leu - 43% SiO2
Wt % SiO2
quartz
tridymite
27% melt
73% leucite
0% K-feldspar
0% cristobalite
0% tridymite
0% quartz


88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1149
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt composition
56% leu - 44% SiO2
Wt % SiO2
quartz
tridymite
peritectic
reaction
melt
leucite
K-feldspar


88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1100
1000
800
melt
cristobalite
+ melt
leucite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
KAlSi3O8
Wt % SiO2
leucite
K-feldspar
melt gone
quartz
tridymite
0% melt
45% leucite
55% K-feldspar
0% cristobalite
0% tridymite
0% quartz


88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1000
800
melt
leucite
+ melt
cristobalite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt gone
Wt % SiO2
quartz
tridymite
0% melt
45% leucite
55% K-feldspar
0% cristobalite
0% tridymite
0% quartz


88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1000
900
800
melt
leucite
+ melt
cristobalite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt gone
Wt % SiO2
quartz
tridymite
0% melt
45% leucite
55% K-feldspar
0% cristobalite
0% tridymite
0% quartz


88% KAlSi2O6 - 12% SiO2
T °C
1800
1600
1400
1200
1000
800
melt
leucite
+ melt
cristobalite
+ melt
tridymite
+ melt
K-spar
+melt
leucite
+ K-spar
K-spar + tridymite
K-spar + quartz
0
20
40
60
80
100
KAlSi2O6
Leu
leucite
KAlSi3O8
K-feldspar
melt gone
Wt % SiO2
quartz
tridymite
0% melt
45% leucite
55% K-feldspar
0% cristobalite
0% tridymite
0% quartz