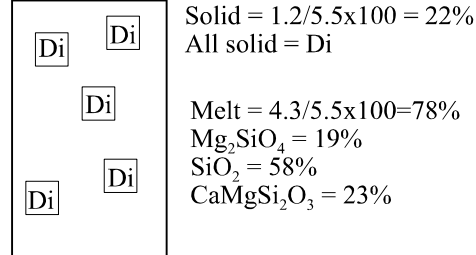


Equilibrium crystallization of composition X

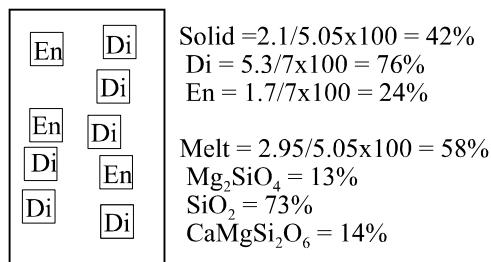
Ternary: 2 Eutectic Phase Diagram

P=20Kbars

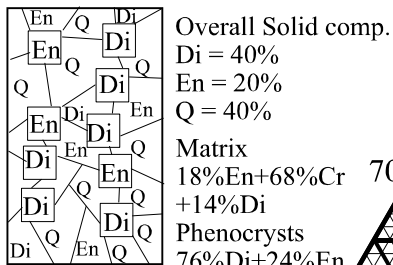
T₁ Composition X



T₂ Composition X



T₃ Composition X

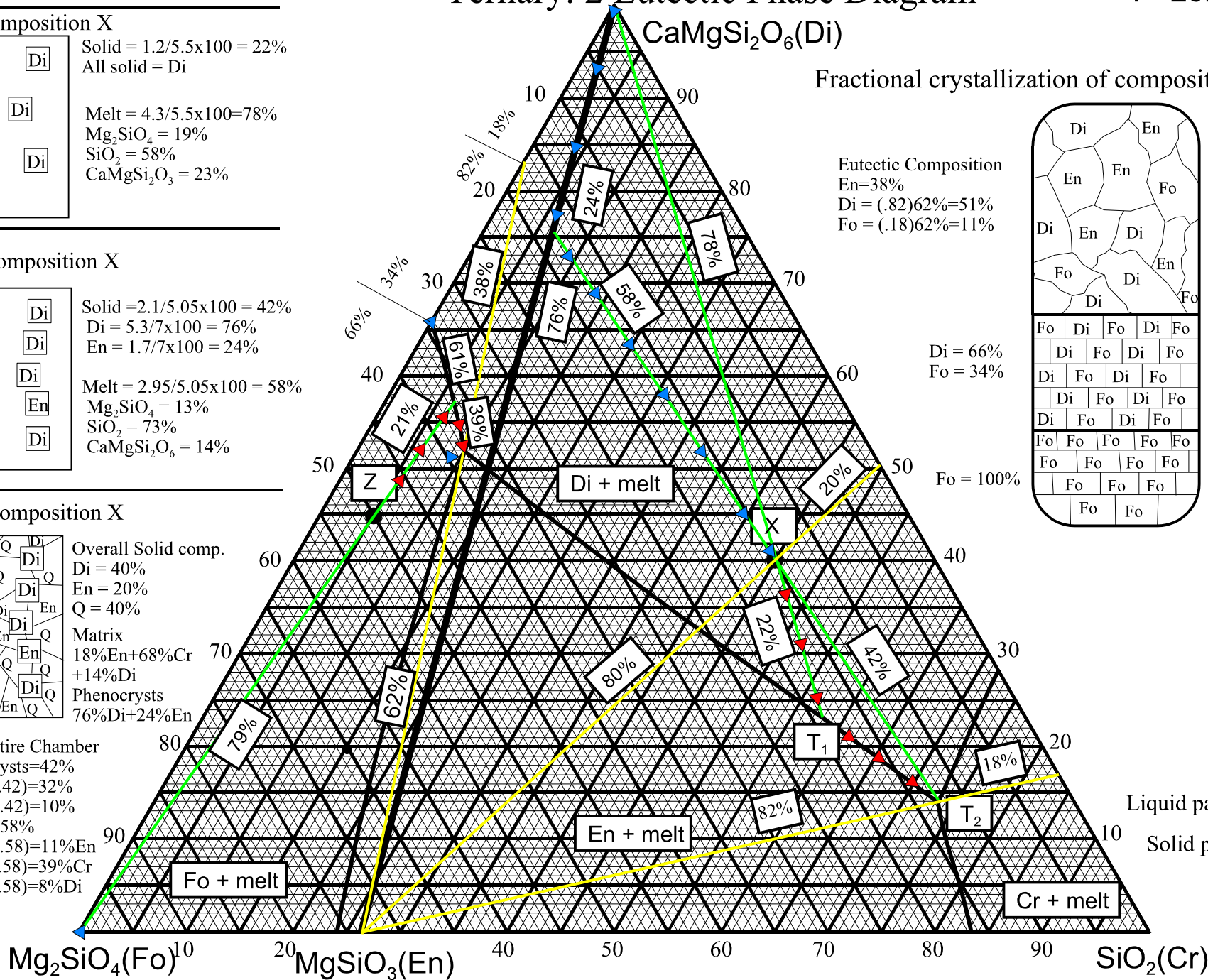
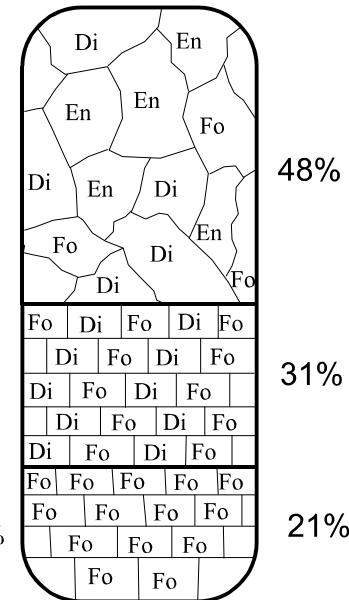


% of Entire Chamber
Phenocrysts=42%
76%Di(.42)=32%
24%En(.42)=10%
Matrix=58%
18%En(.58)=11%En
68%Cr(.58)=39%Cr
14%Di(.58)=8%Di

CaMgSi₂O₆(Di)

Fractional crystallization of composition Z

Eutectic Composition
En=38%
Di = (.82)62%=51%
Fo = (.18)62%=11%



Liquid path ▶
Solid path ▶

Mg₂SiO₄(Fo)¹⁰ 20 MgSiO₃(En) 40 50 60 70 80 90 SiO₂(Cr)