

Hetlik, Øving 9, Vegard G. Juvell

● Oppg. 2a)

$$\gamma\text{-Fe} + \alpha\delta\text{Fe} : \approx 900^\circ\text{C} / \approx 1400^\circ\text{C}$$

$$\text{Fe(s)} + \text{Fe(l)} : 1536^\circ\text{C}$$

$$\epsilon + \alpha\delta\text{-Fe} + \text{L} : 1229^\circ\text{C}$$

$$\beta_2 + \xi + \epsilon : 1092^\circ\text{C}$$

$$\epsilon + \xi + \eta : 1136^\circ\text{C}$$

$$\epsilon + \eta + \text{L} : 1153^\circ\text{C}$$

$$\eta + \text{L} : 1156^\circ\text{C}$$

$$\eta + \theta + \text{L} : 1146^\circ\text{C}$$

$$\theta + \text{L} : \approx 1154^\circ\text{C}$$

$$\text{Al} + \text{L} : 660^\circ\text{C}$$

$$\theta + \text{Al} + \text{L} : 652^\circ\text{C}$$

1b) 60 wt% Al :

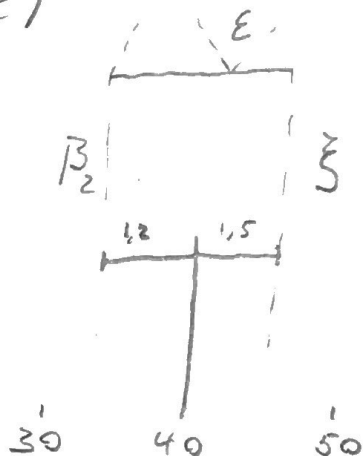
$$\text{Solidus} : \approx 1125^\circ\text{C}$$

$$\text{Liquidus} : \approx 1150^\circ\text{C}$$

$$80 \text{ wt\% Al} : \text{Solidus} : \approx 1000^\circ\text{C}$$

$$\text{Liquidus} : 652^\circ\text{C}$$

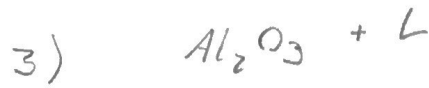
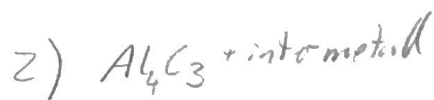
1c)



$$w_{\beta_2} = \frac{1,5}{2,7} = \frac{5}{9}$$

$$w_{\xi} = \frac{1,2}{2,7} = \frac{4}{9}$$

Oppg. 2a)



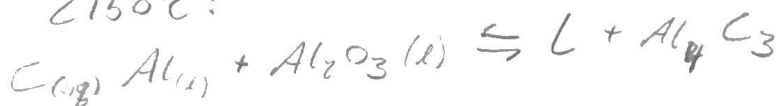
2b) $1905^\circ C$: Eutektisk temp



$1940^\circ C$: Peritektisk temp



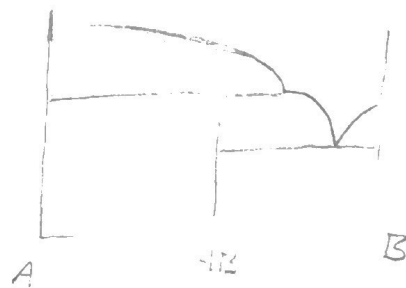
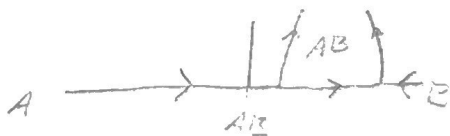
$2150^\circ C$:



Oppg. 3a)

Inkompatibilitet

3b)



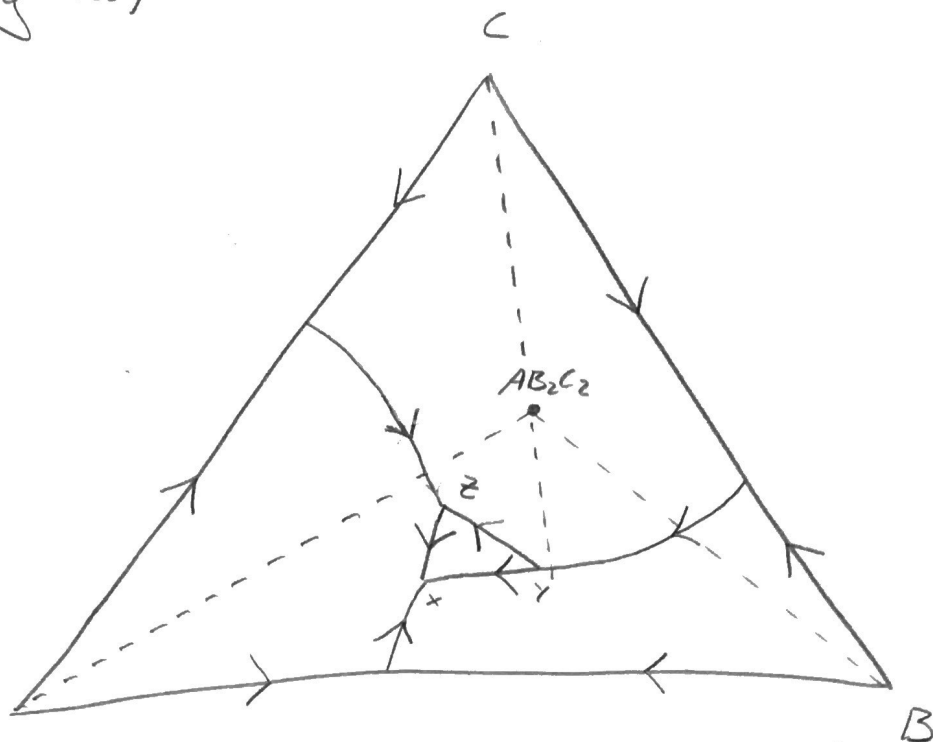
3c) 2) Eutektisk

3) kongruent

4) Peritektisk

5) eutektisk

Oppg 4a)



A x: Eutektisk (tre faser inn)

y, z: Peritektisk (to inn, en ut /
en inn, to ut)