

Lesson 07: Phase diagrams

Exercise 07.1 Cu-Sn (Bronze)

- a) 16 wt.% Sn
- b) 1020 °C
- c) Copper solid solution (Cu) [or α] with 2 wt.% Sn
- d) 840 °C
- e) One phase: copper solid solution (Cu) [or α]
- f) Copper solid solution (Cu) [or α] with 9 wt.% Sn
- g) 2.1 kg of (Cu) [or α]
- h) Two phases: copper solid solution (Cu) [or α] and ϵ -phase (Cu_3Sn)
- i) Copper solid solution (Cu) [or α] with 4 wt.% Sn
 ϵ -phase (Cu_3Sn) with 37 wt.% Sn
- j) Copper solid solution (Cu) [or α]: 1.78 kg
 ϵ -phase: 0.32 kg