

## Au – X binary systems

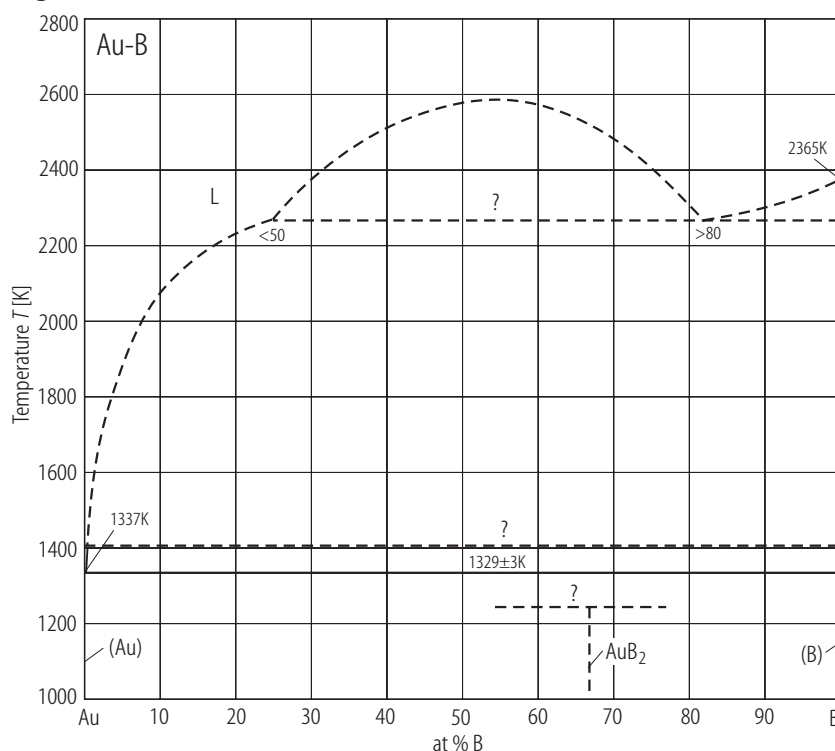
### Au – B (Gold – Boron)

#### Phase diagram

On the basis of very scarce experimental investigations Okamoto et al. [92 Oka] have drawn a hypothetical phase diagram, which served as information to draw Fig. 1.

Some metallographic results have confirmed the miscibility gap in this system [65 Wal]. There are some indications corroborating the existence of a metastable intermediate phase  $\text{AuB}_2$  with hexagonal structure ( $\text{AlB}_2$ -type).

#### Figure



**Fig. 1. Au–B.**  
Hypothetical phase diagram [92 Oka].

#### References

- [65 Wal] Wald, F., Stormont, R.W.: J. Less-Common Met. **9** (1965) 423
- [92 Oka] Okamoto, H., Massalski, T.B., in: [Massalski]
- [Massalski] Massalski, T.B., (ed.): “Binary Alloy Phase Diagrams” Second Edition, The Materials Information Society, ASM International, Materials Park, Ohio (1992)