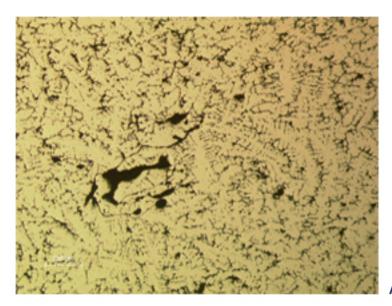
A58 - PTOLOMAIC COIN





A58.1



Sample: A58 (A59)

Card reference: S87
Origin: Egypt

Location: Collection AFL

Description

The coin was sectioned for metallographic study. Cast tin bronze (less than 10%wt), showing dendritic structure. Presence of holes in the interior and very superficial corrosion.

Figure captions

A58.1

General view: well defined dentritic structure, second phase and impurities in the interdendritic space, shrinkage cavities and a large number of pores.

A58.2

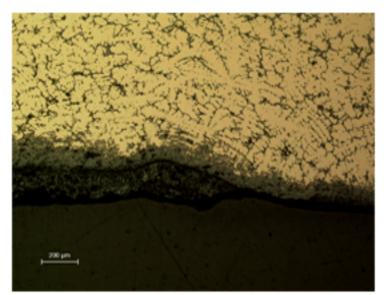
General view: slight deformation of dendrites near the surface and selective corrosion of the Cu-rich phase of the alloy.

A58.3

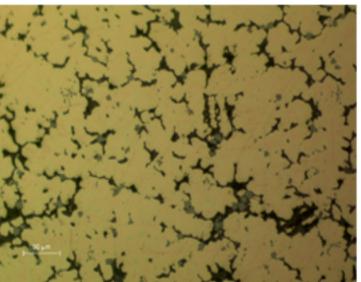
Detail: interdentritic space presenting corroded eutectoid phase (dark grey), pores (black) and sulphide inclusions (grey).

A58.4

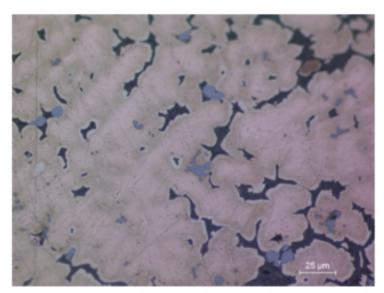
Detail: cored dentrites (rose coloured in the middle); eutectoid (Sn-rich phase) and impurities (containing S) are visible in interdendritic space (etchant: aqueous FeCl₃).



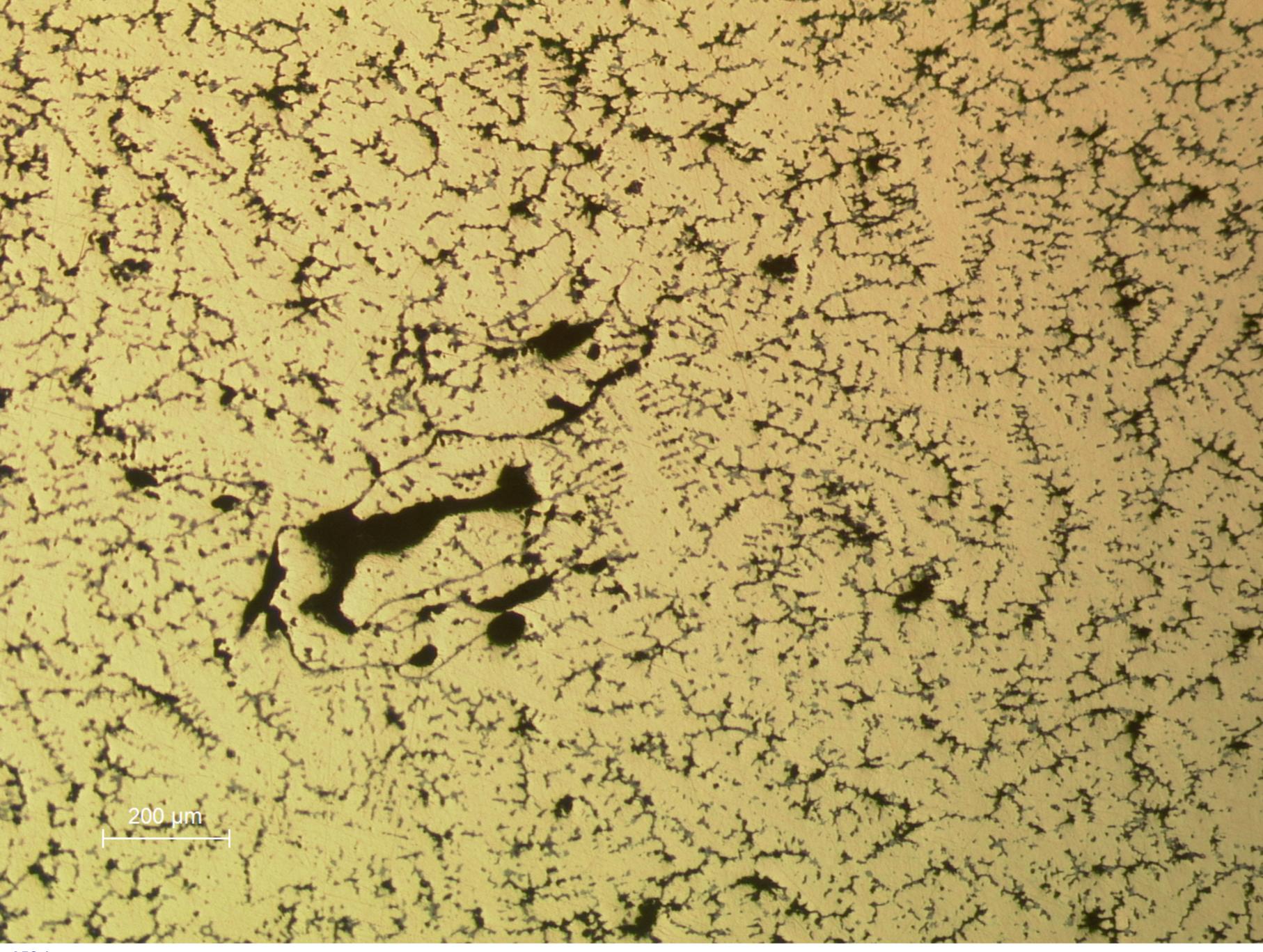
A58.2



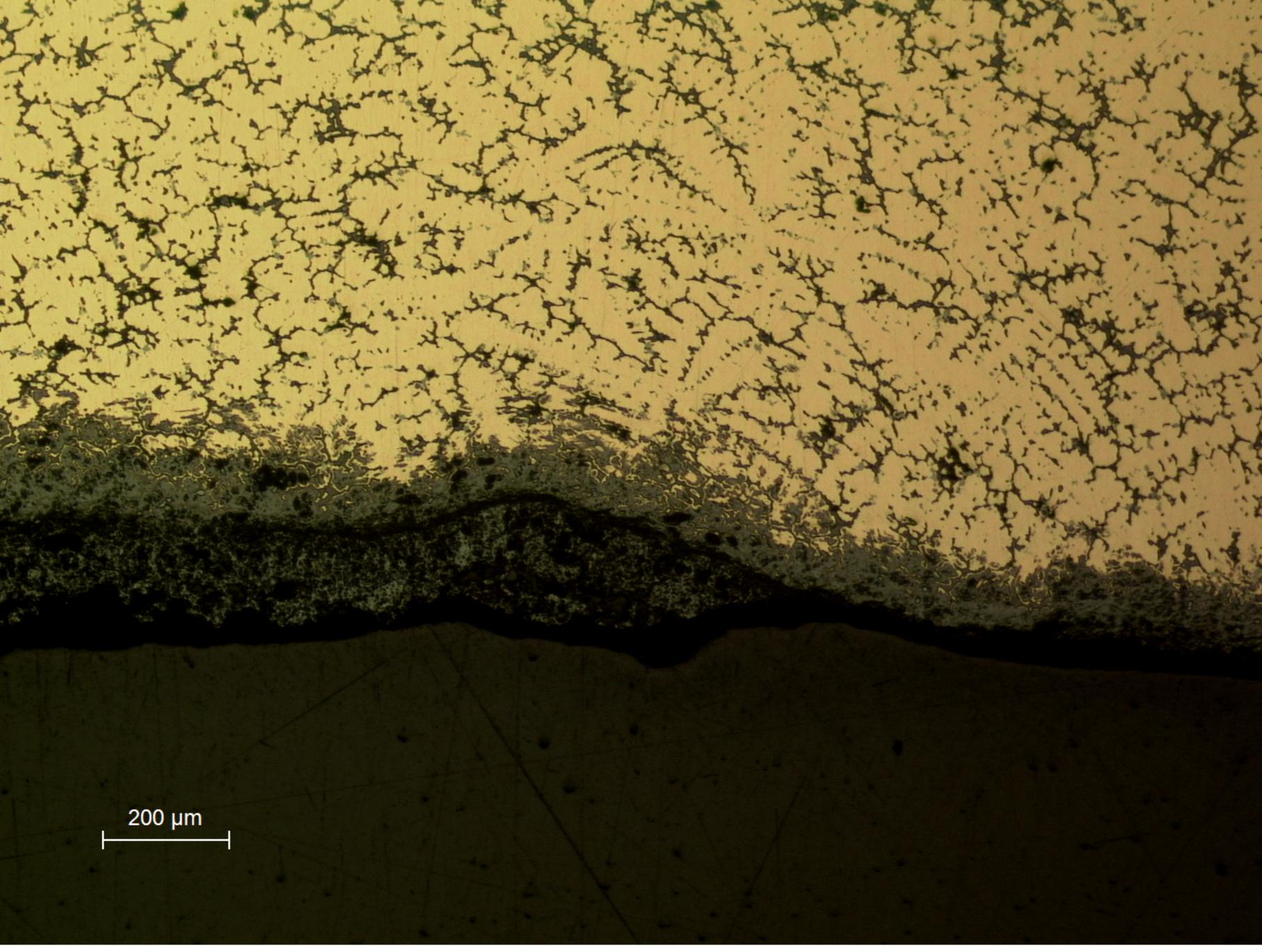
VEO 3



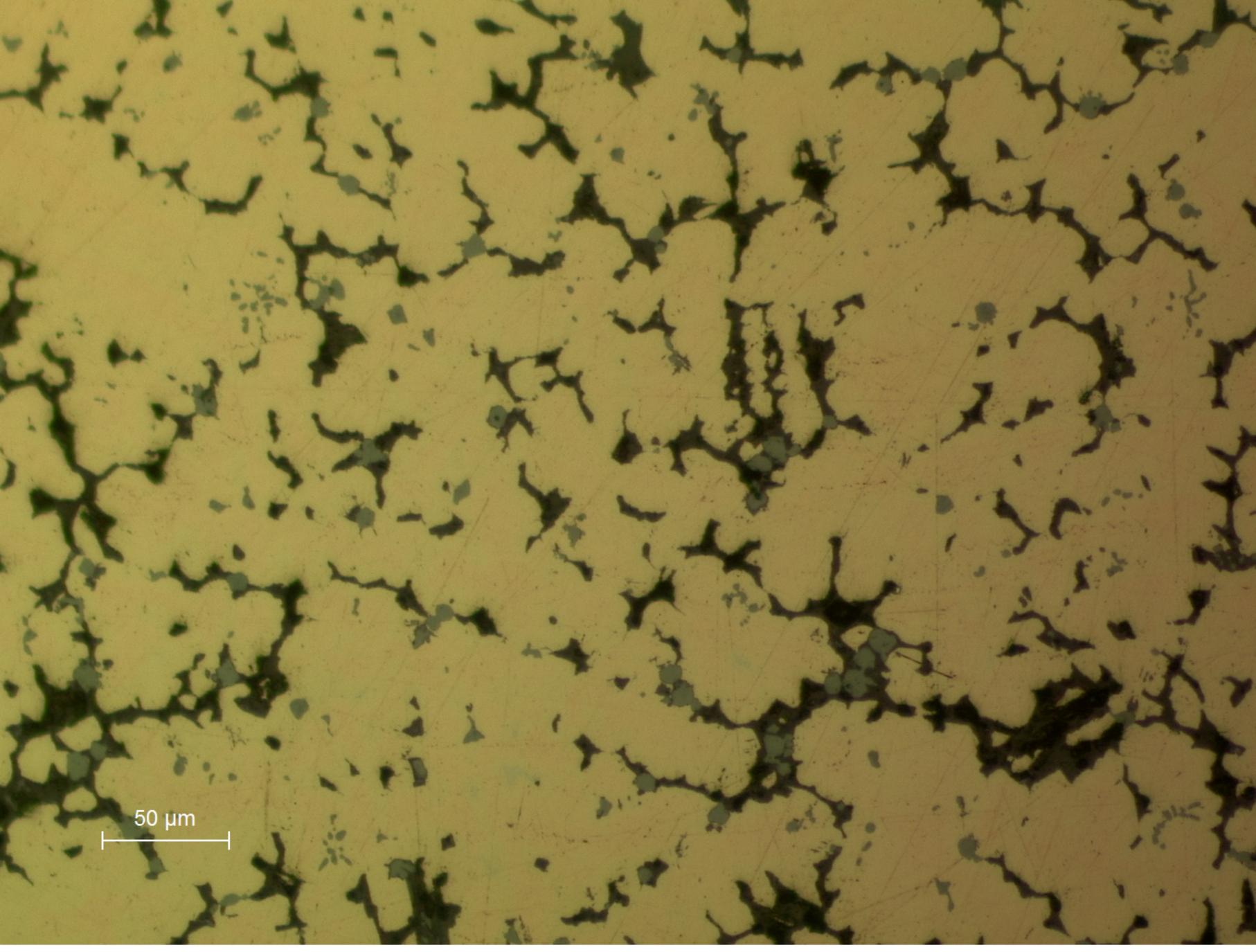
A58.4



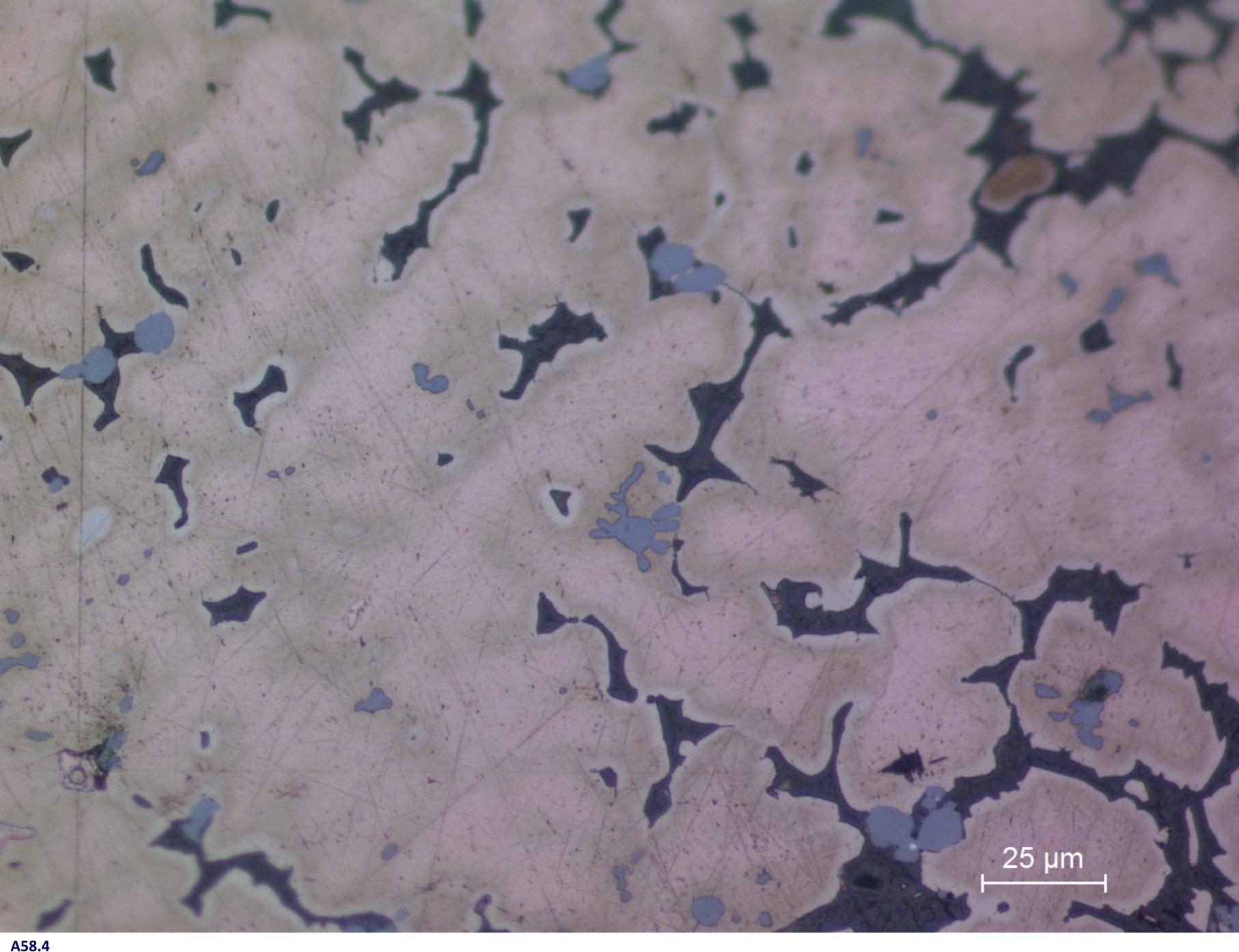
A58.1 General view: well defined dentritic structure, second phase and impurities in the interdendritic space, shrinkage cavities and a large number of pores.



A58.2 General view: slight deformation of dendrites near the surface and selective corrosion of the Cu-rich phase of the alloy.



A58.3
Detail: interdentritic space presenting corroded eutectoid phase (dark grey), pores (black) and sulphide inclusions (grey).



Detail: cored dentrites (rose coloured in the middle); eutectoid (Sn-rich phase) and impurities (containing S) are visible in interdendritic space (etchant: aqueous FeCl₃).