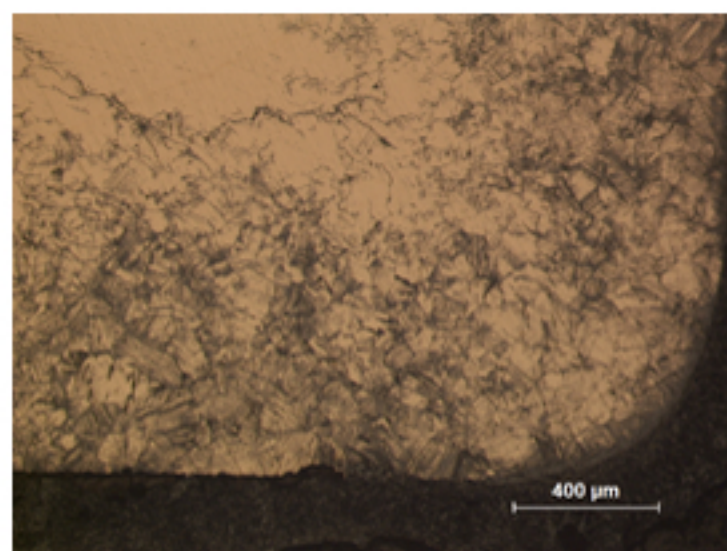
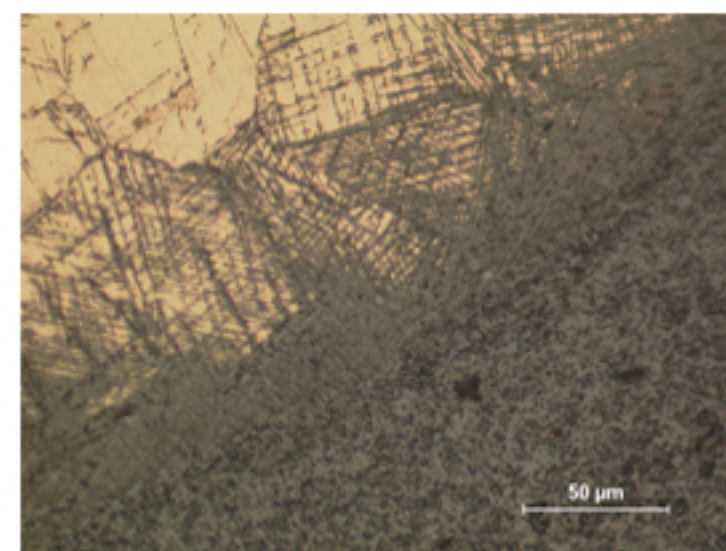


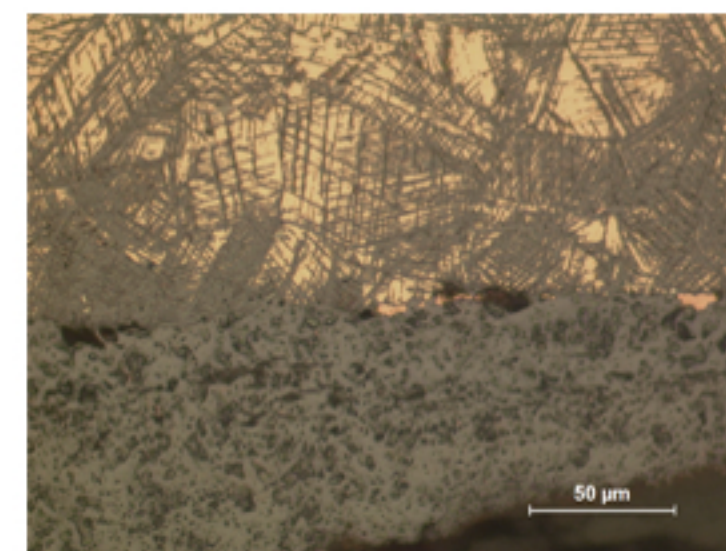
B14 - BRONZE VASE



B14.1



B14.2



B14.3

Identification

Sample: B14 (B15)
Card reference: C37 bis
Origin: Etruria V AC
Location: n/a

Description

The original surface (epidermis) appears sharp, below it there is transcrystalline corrosion.

Figure captions

B14.1
General view showing penetration of corrosion in strain lines.

B14.2
Detail showing evidence of the original surface (epidermis).

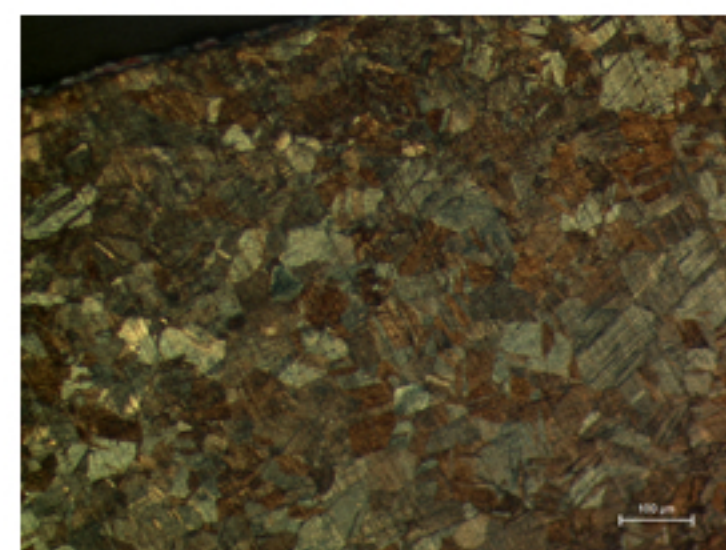
B14.3
Detail of another area of the sample, where unalloyed copper inclusions can be observed.

B14.4
General view of the cross section: recrystallized grains with annealing twins and some strain lines due to post annealing cold work (etchant: aqueous FeCl_3).

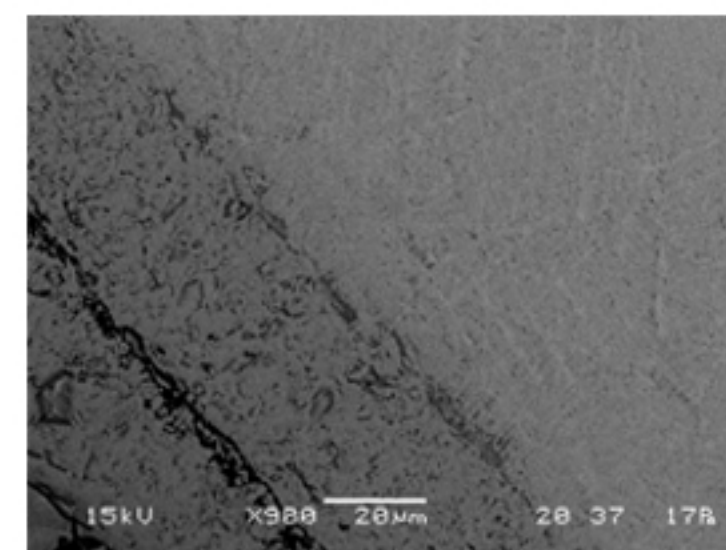
B14.5
SEM image of the original surface (center), which contains the highest tin content . To the right (metallic part) the tin content decreases and to the left (corrosion products) it decreases even more.

B14.6
Detail of another area of the sample showing the interface between the metal and the corrosion layer.

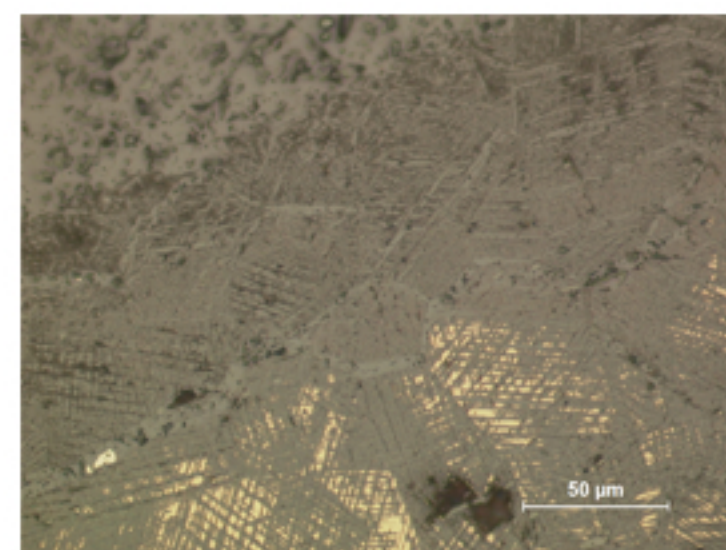
B14.7
Detail of B14.6, showing the outline of a former grain, which has undergone complete transformation into corrosion products.



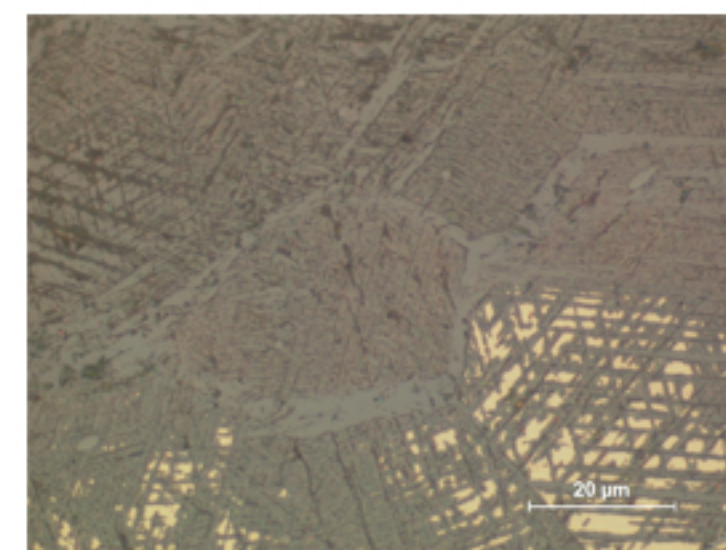
B14.4



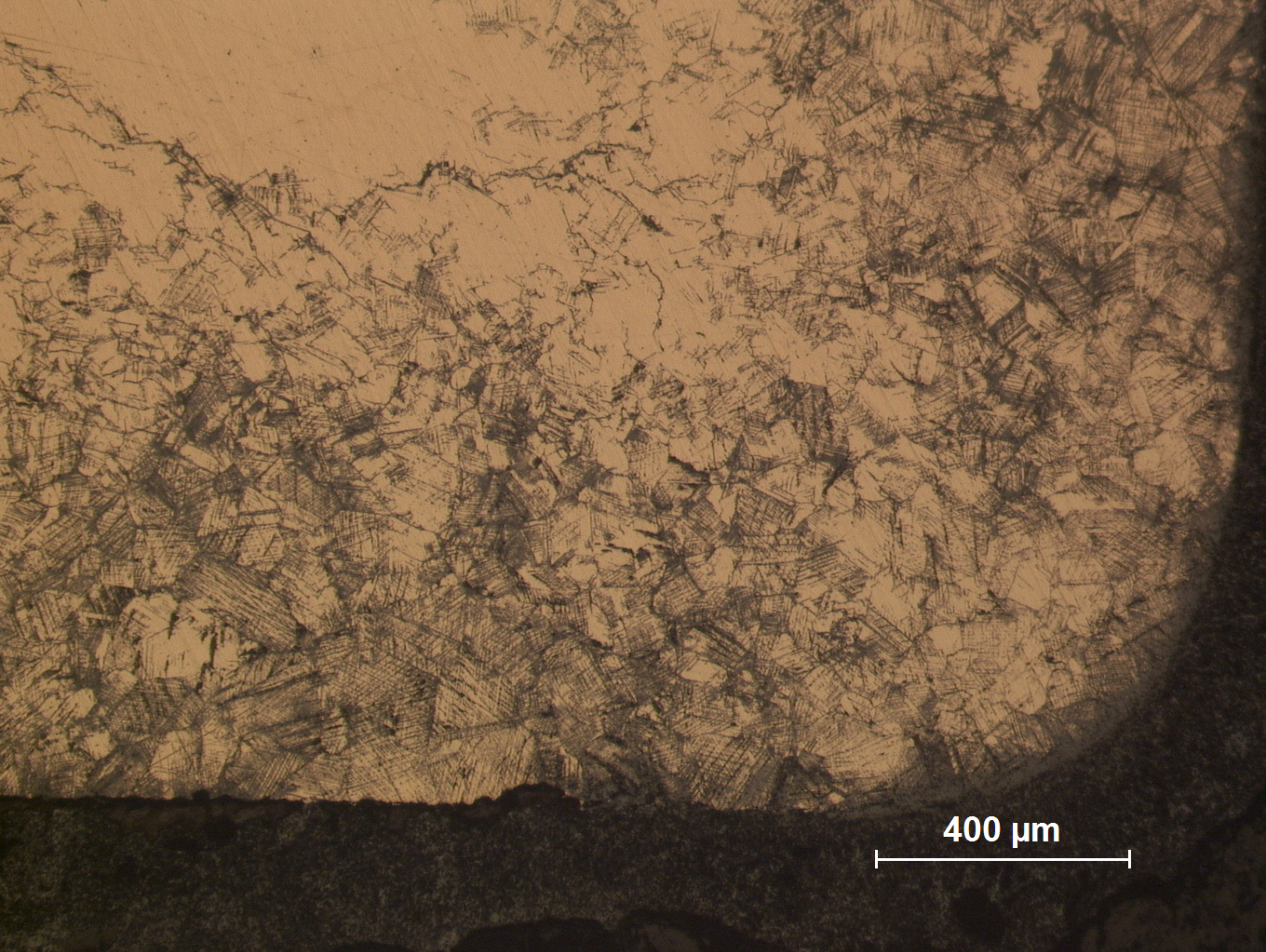
B14.5



B14.6

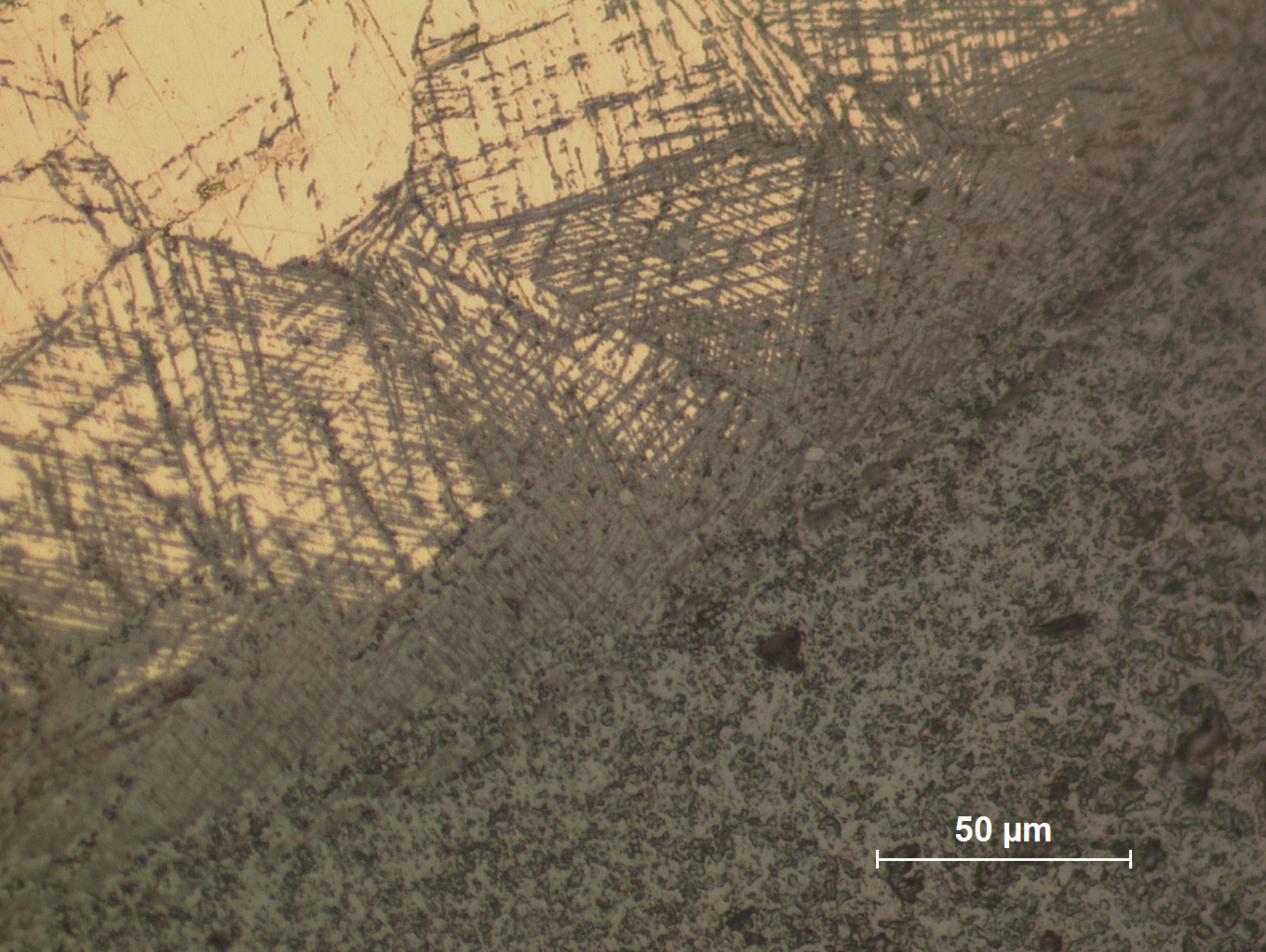


B14.7

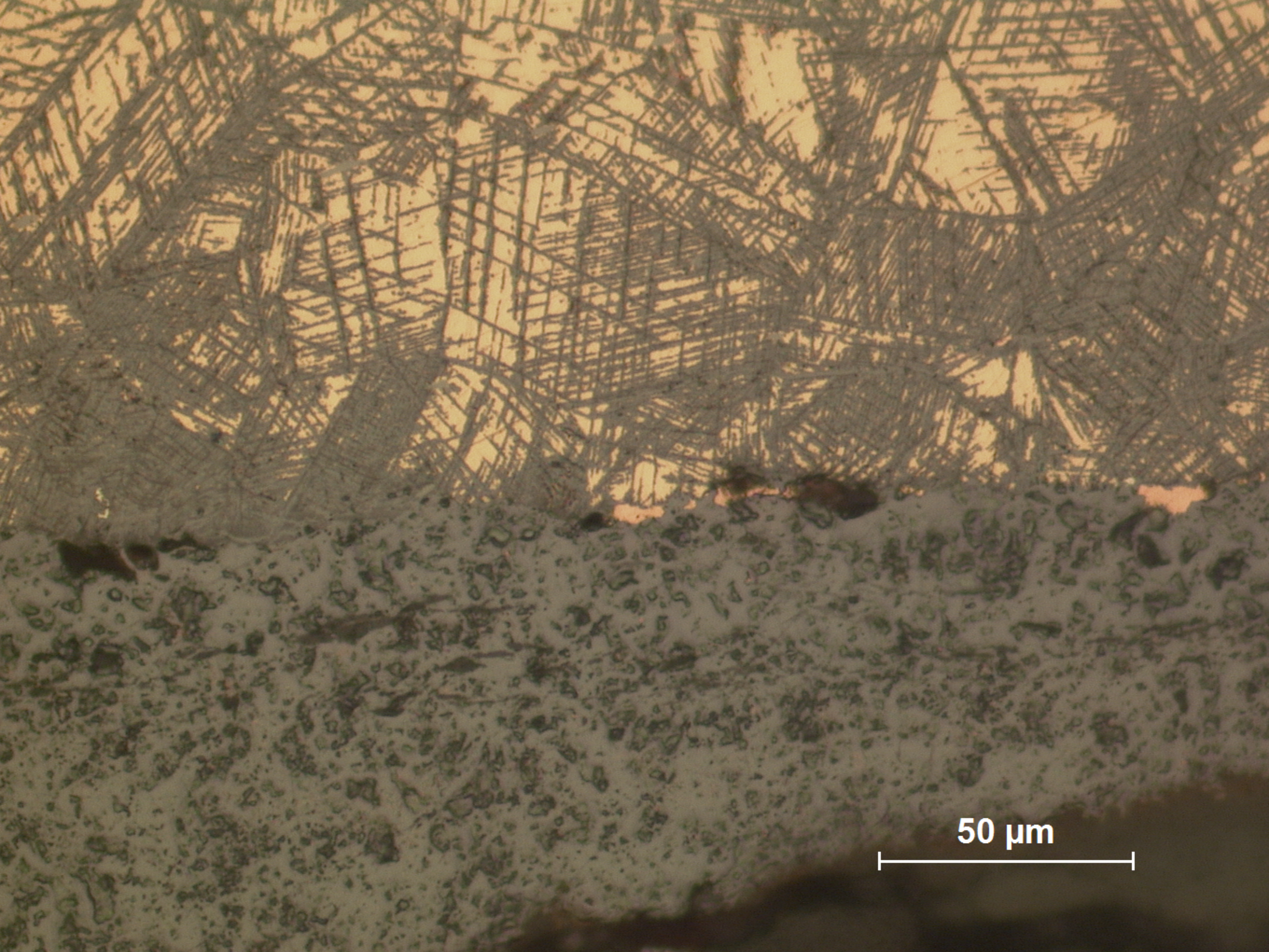


400 μm

B14.1
General view showing penetration of corrosion in strain lines.

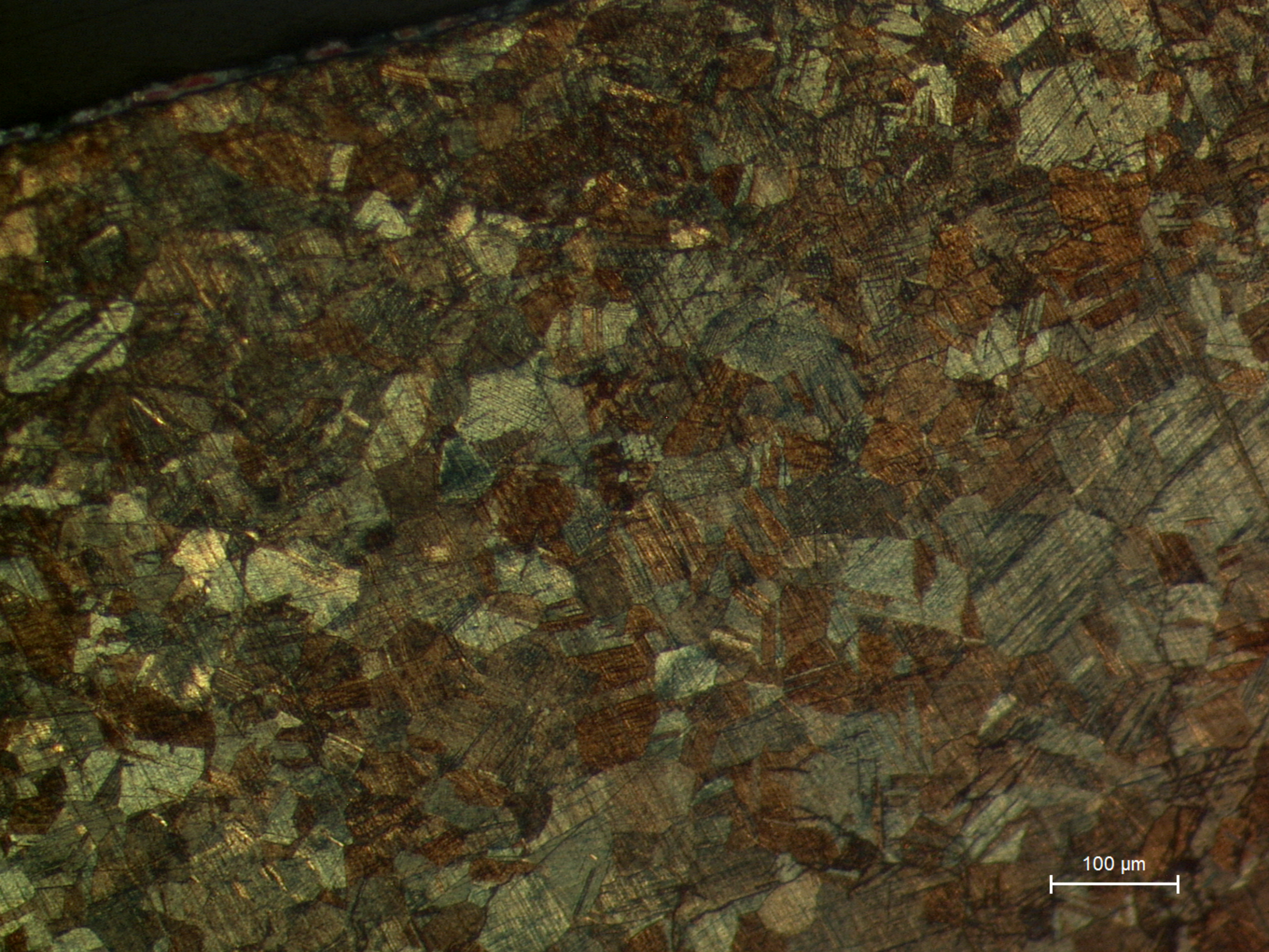


B14.2
Detail showing evidence of the original surface (epidermis).



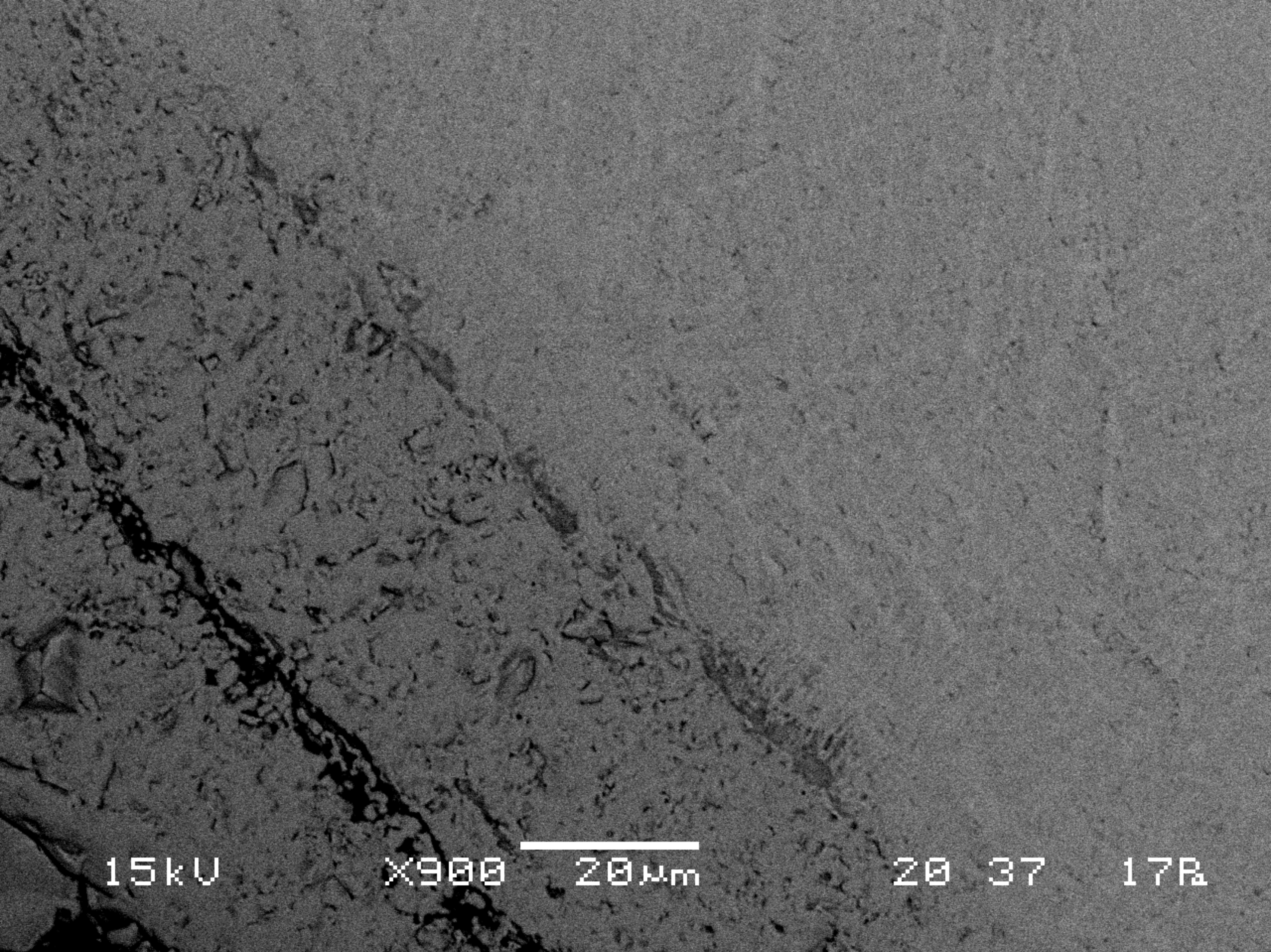
50 μm

B14.3
Detail of another area of the sample, where unalloyed copper inclusions can be observed.

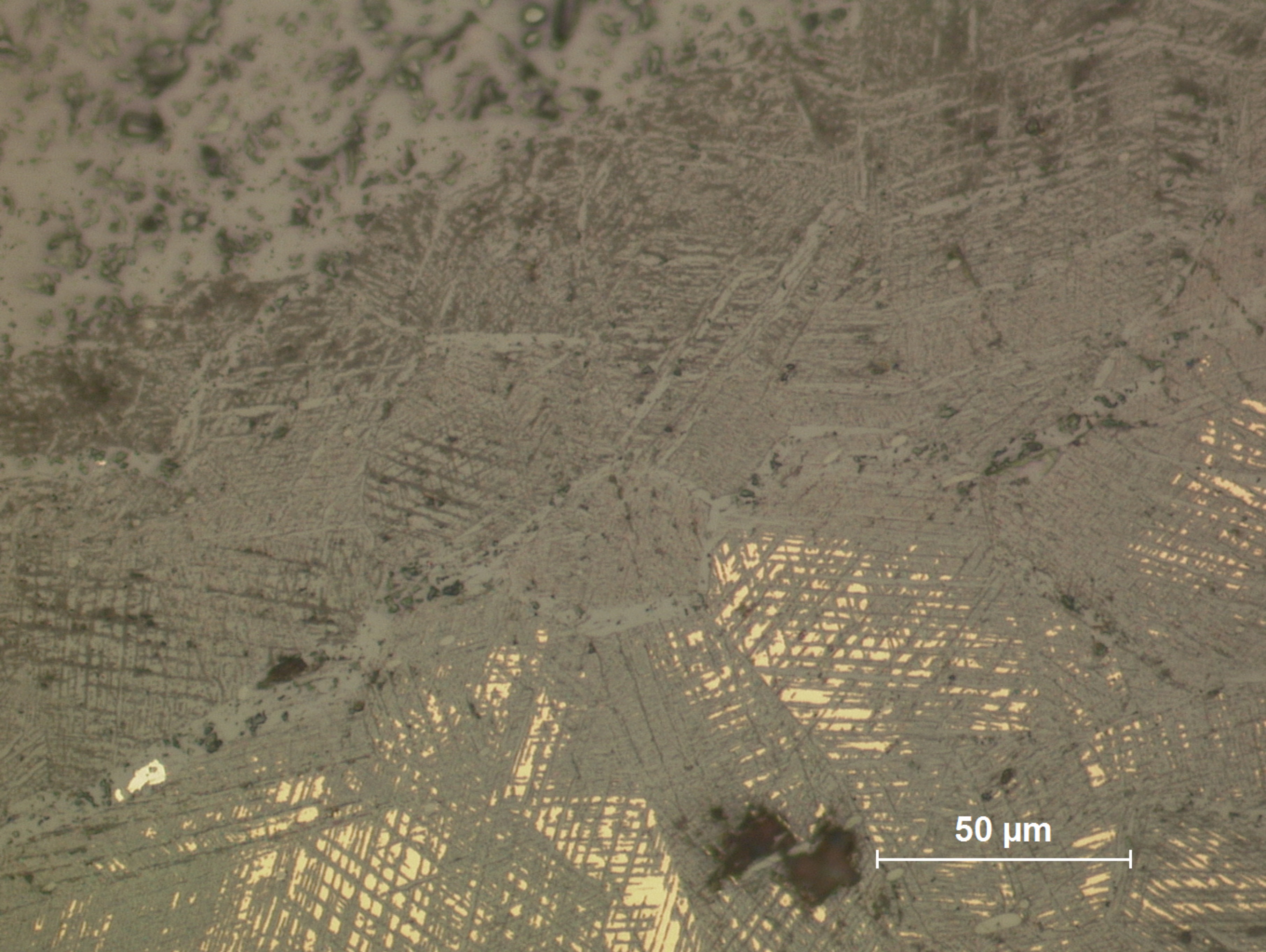


100 μm

B14.4
General view of the cross section: recrystallized grains with annealing twins and some strain lines due to post annealing cold work (etchant: aqueous FeCl_3).

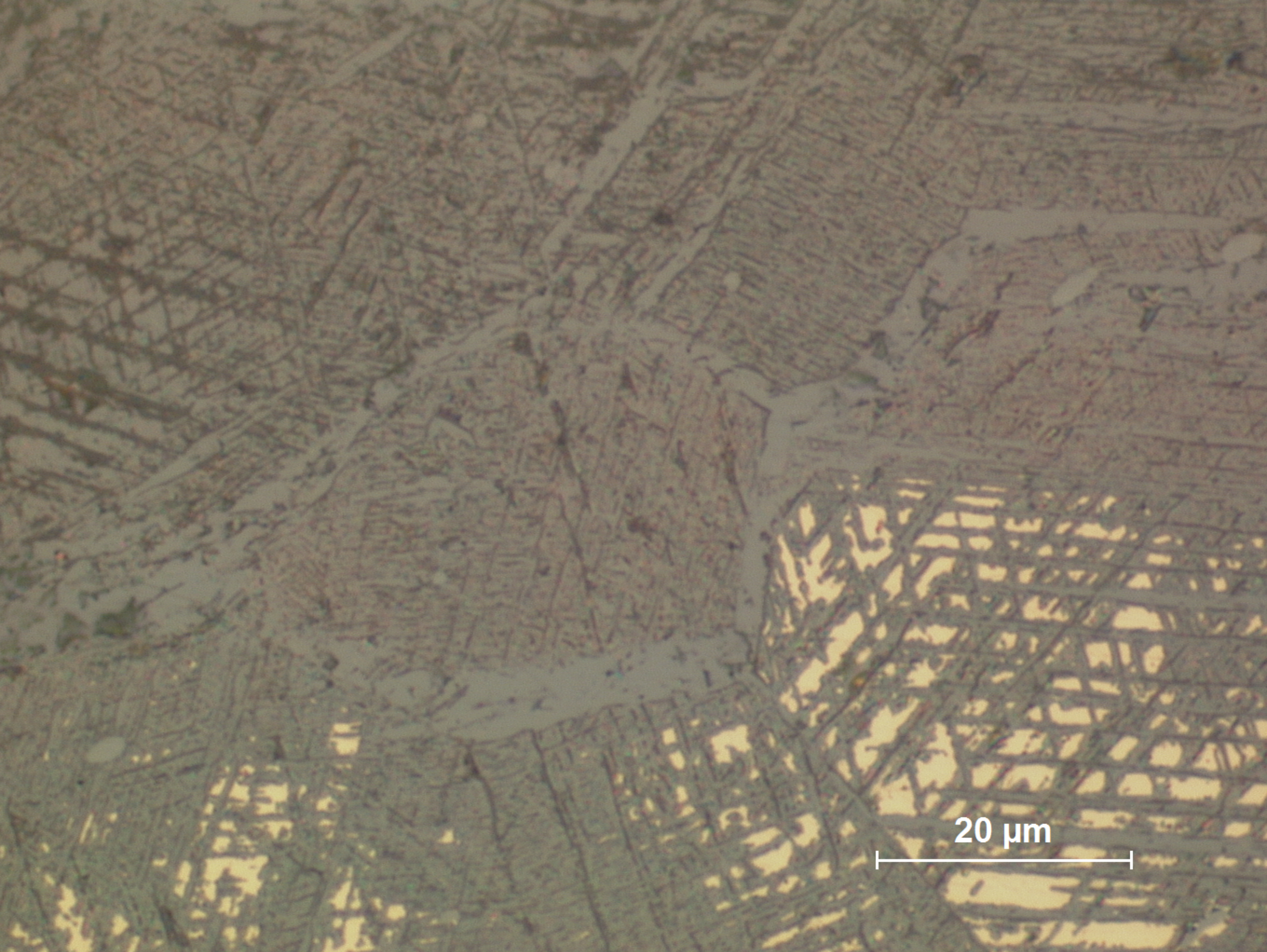


B14.5
SEM image of the original surface (center), which contains the highest tin content . To the right (metallic part) the tin content decreases and to the left (corrosion products) it decreases even more.



50 μm

B14.6
Detail of another area of the sample showing the interface between the metal and the corrosion layer.



20 μm

B14.7
Detail of B14.6, showing the outline of a former grain, which has undergone complete transformation into corrosion products.