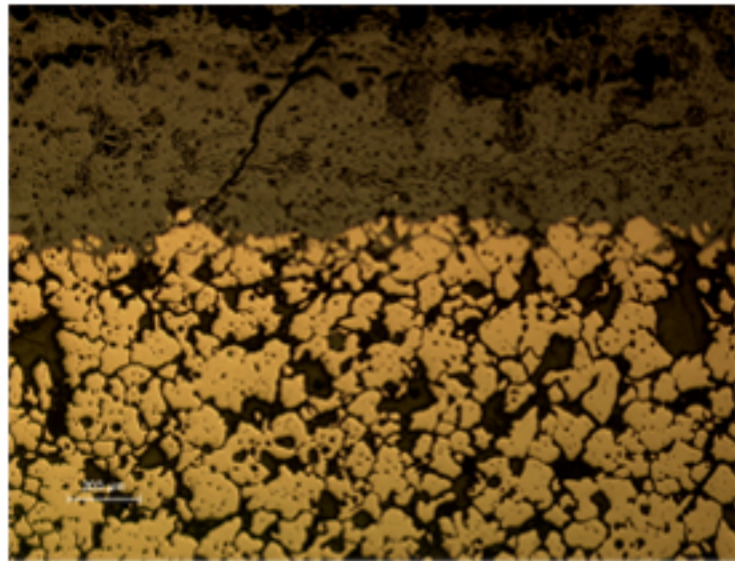
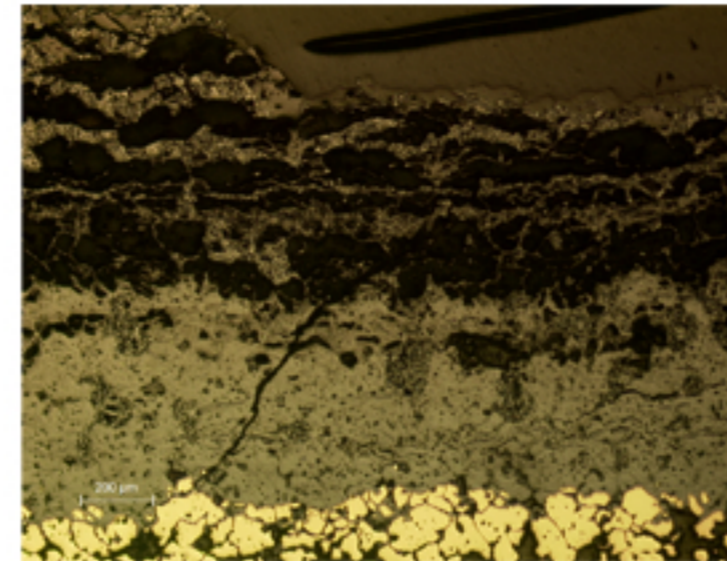


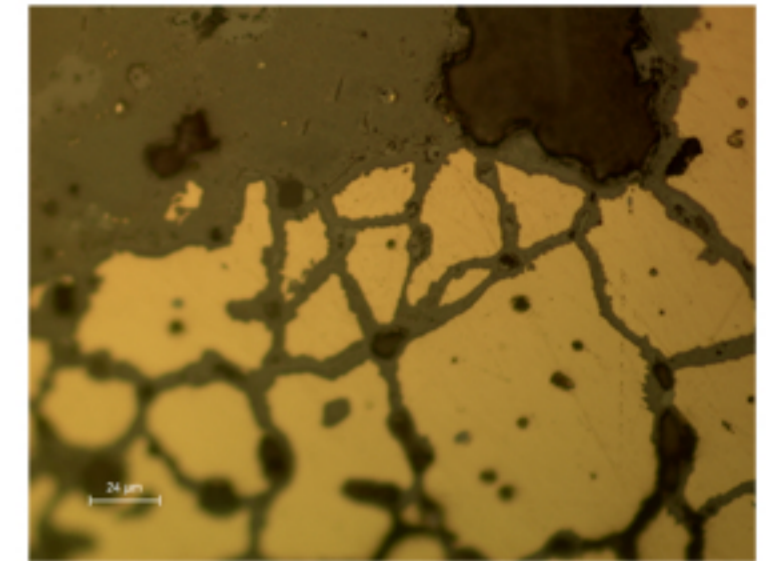
A163 - SMALL BELL



A163.1



A163.2



A163.3

Identification

Sample: A163
Card reference: C10
Origin: Lorraine
Location: n/a

Description

Leaded tin bronze. External products have a stratified structure (cuprite and carbonates) and corrosion penetrates intergranularly.

Figure captions

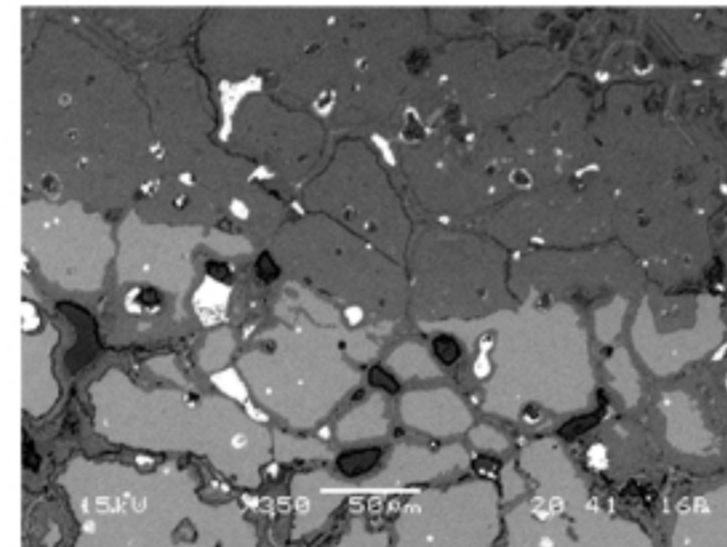
A163.1
General view: heavily intergranularly corroded alloy with a thick layer of corrosion products.

A163.2
General view showing the layered structure of corrosion products: the external stratified layer has a higher tin content than the intermediate (light grey) one.

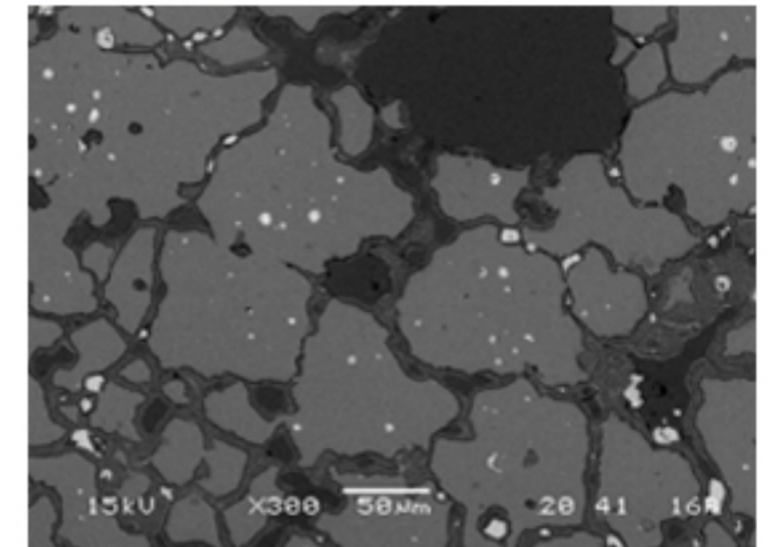
A163.3
Detail of the interface, showing the intergranular penetration of corrosion.

A163.4
SEM image of the interface showing the presence of Pb inclusions (bright white), the former grain boundaries inside corrosion products (upper grey layer) and the intergranular penetration of corrosion.

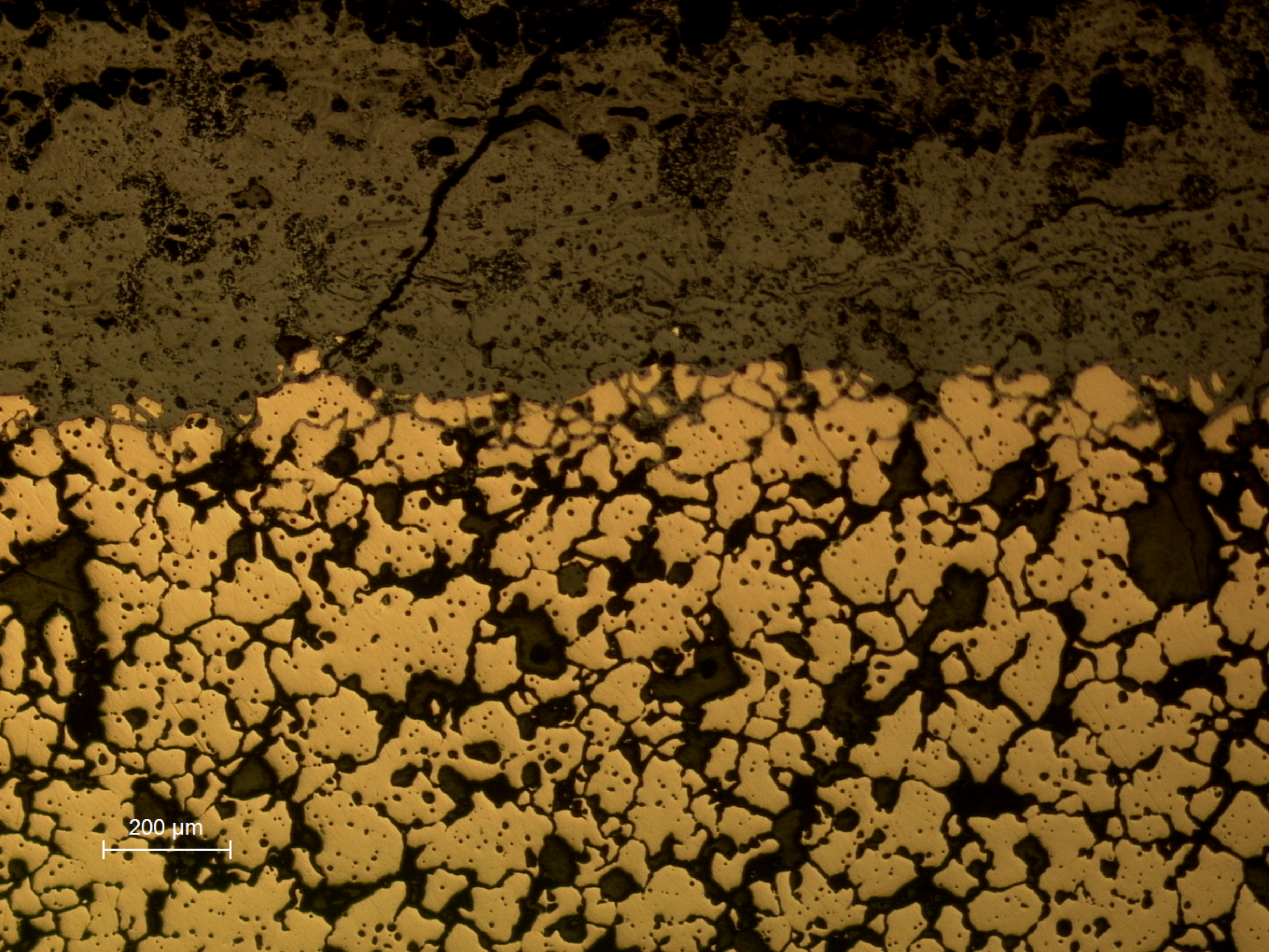
A163.5
SEM image of another area of the sample: progressive development of corrosion; the dark grey intergranular areas have a high chloride content.



A163.4

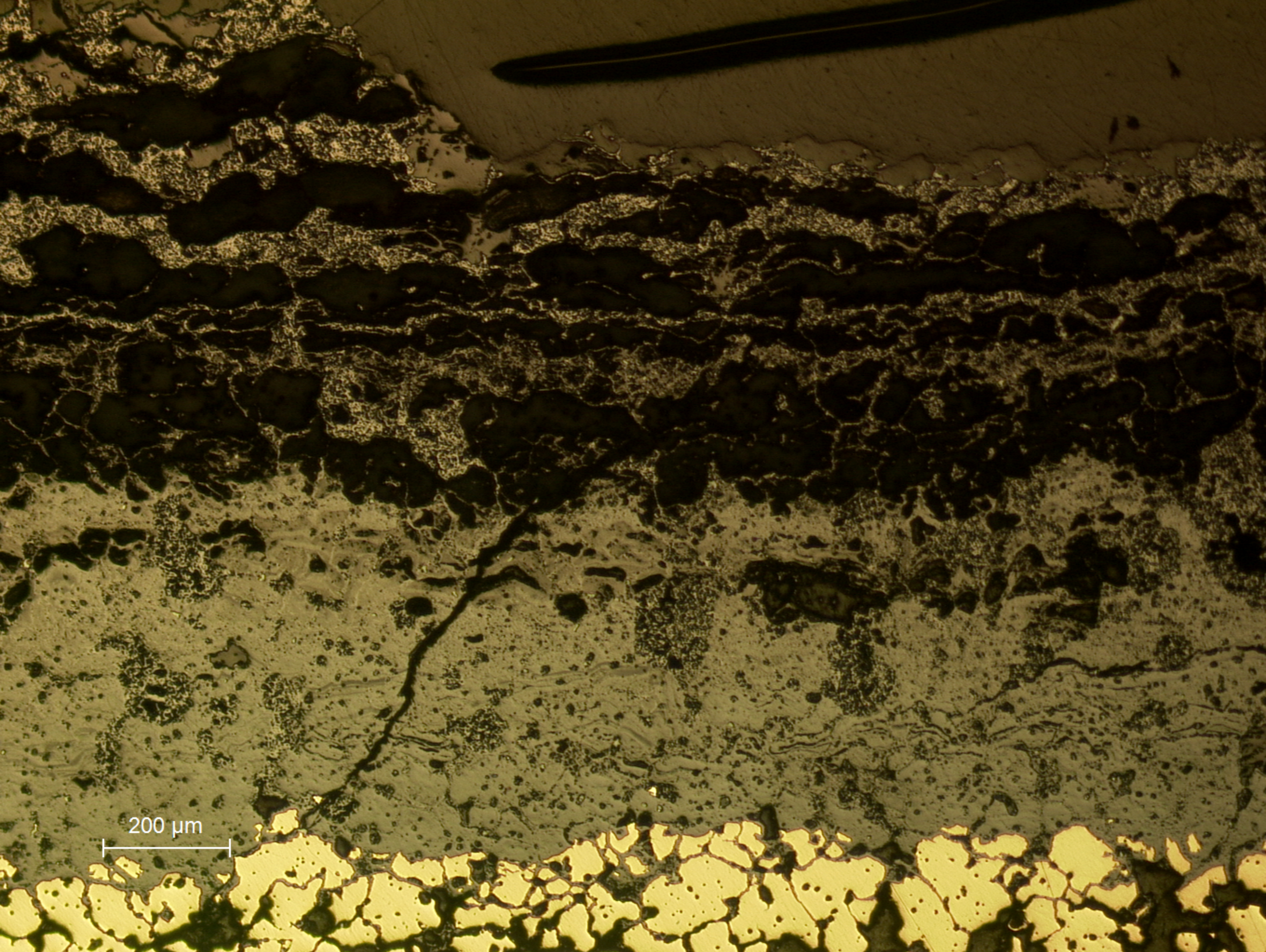


A163.5



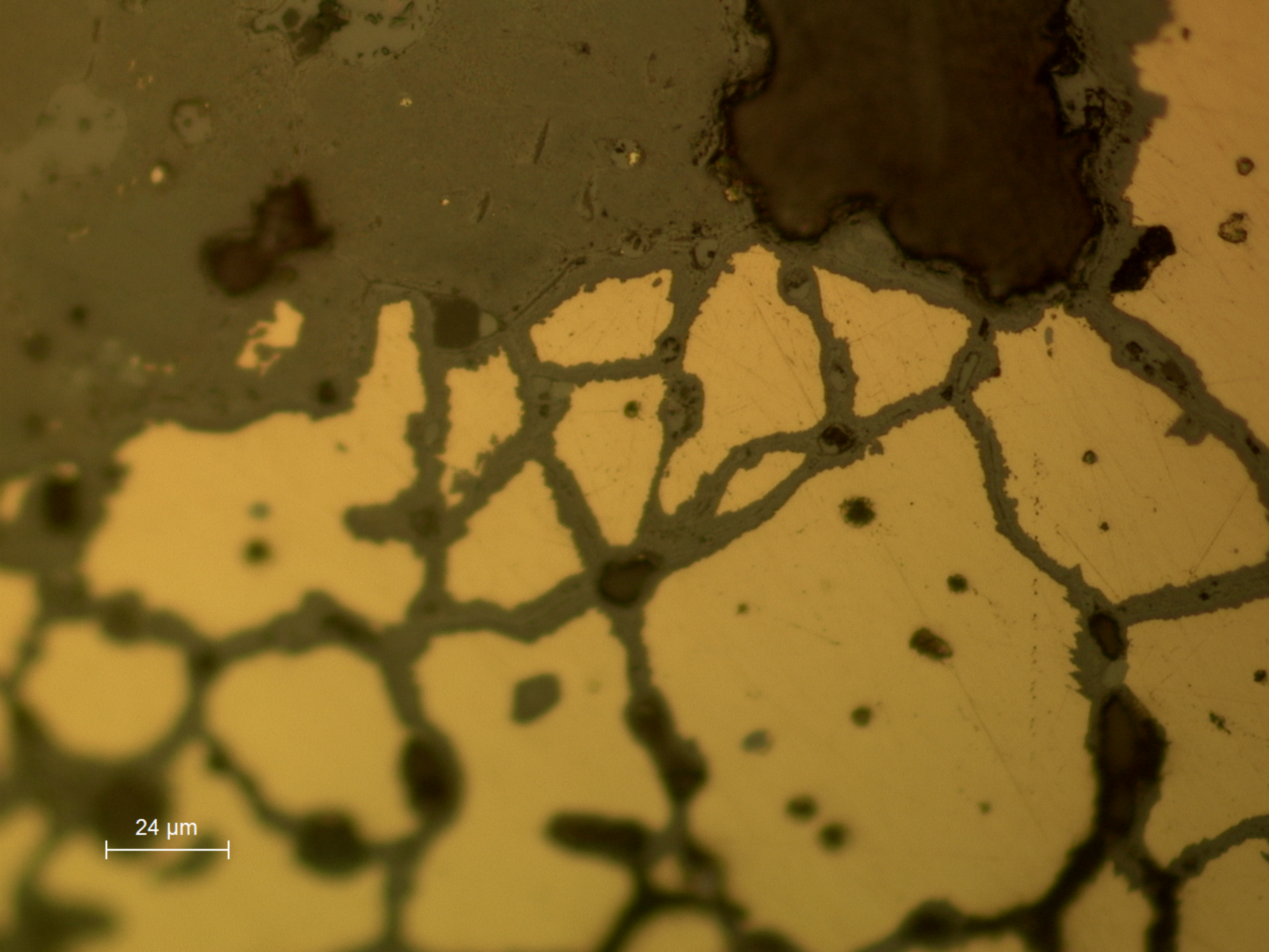
200 μm

A163.1
General view: heavily intergranularly corroded alloy with a thick layer of corrosion products.



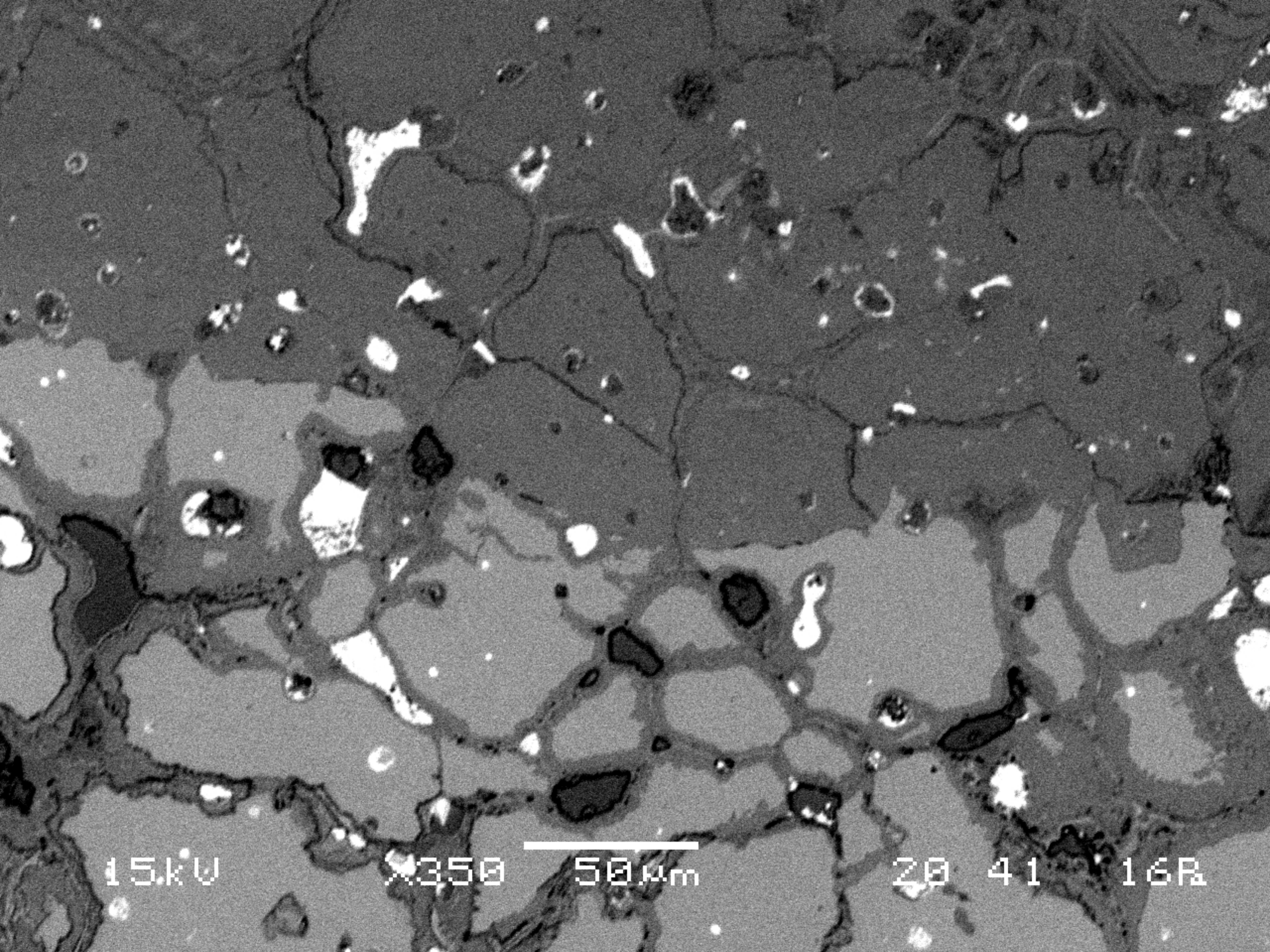
200 μm

A163.2
General view showing the layered structure of corrosion products: the external stratified layer has a higher tin content than the intermediate (light grey) one.

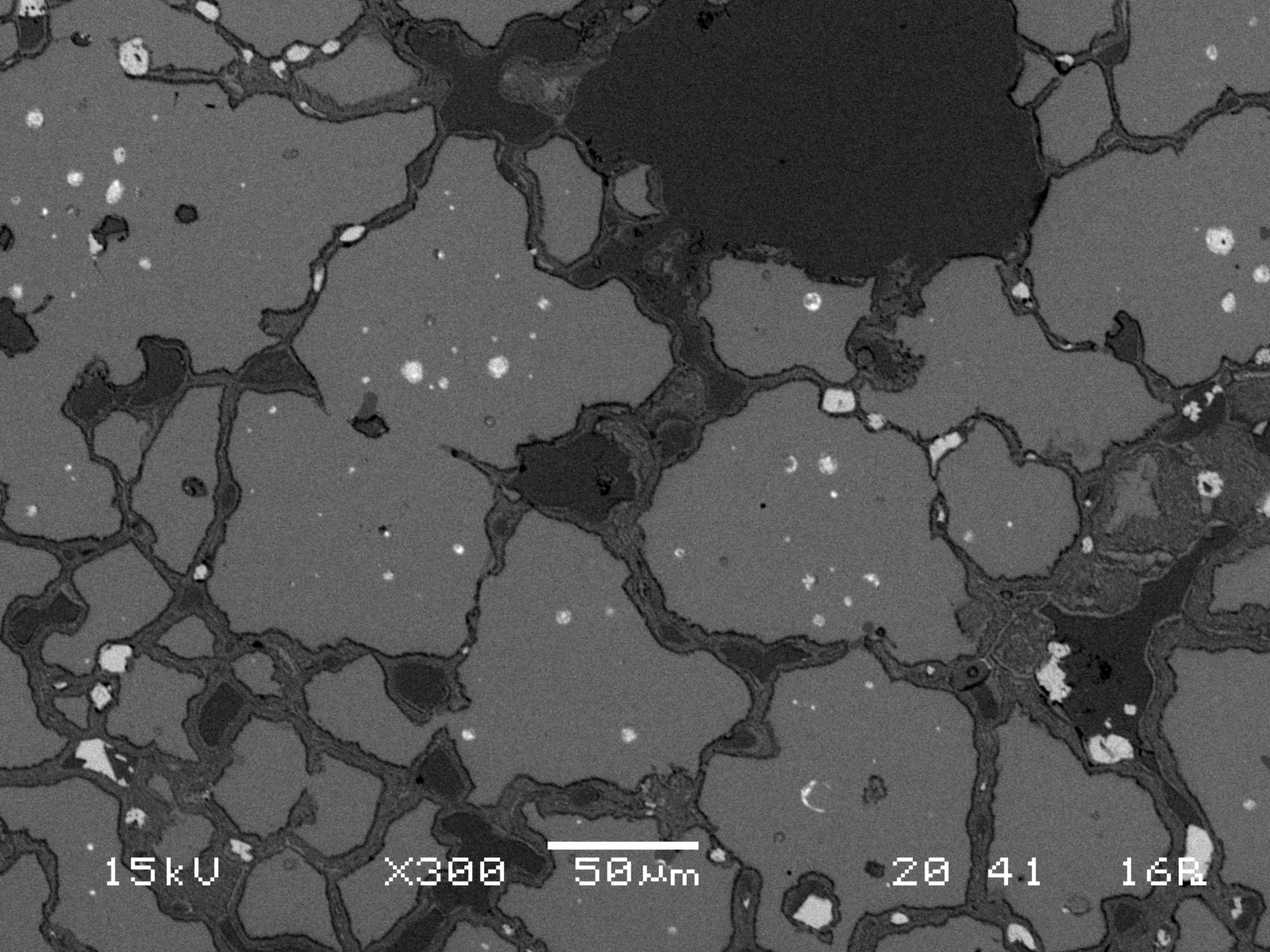


24 μm

A163.3
Detail of the interface, showing the intergranular penetration of corrosion.



A163.4
SEM image of the interface showing the presence of Pb inclusions (bright white), the former grain boundaries inside corrosion products (upper grey layer) and the intergranular penetration of corrosion.



A164.5
SEM image of another area of the sample: progressive development of corrosion; the dark grey intergranular areas have a high chloride content.