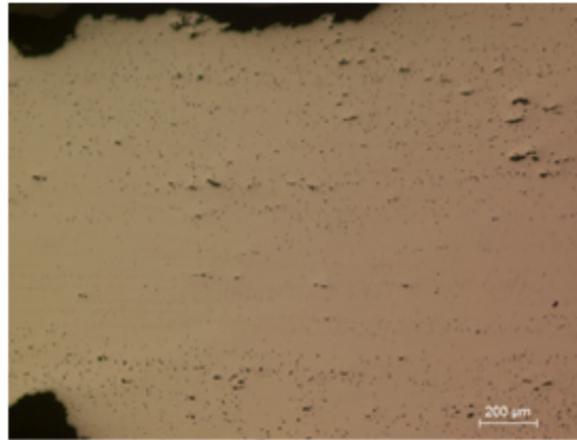


A83 - MALAYSIA KRIS



A83.1

Identification

Sample: A83
Card reference: S47
Origin: Malaysia
Location: Collection AFL

Description

The blade is formed partly of pure Fe and partly of carburized Fe which have been forged together, and folded many times, giving a foliated structure.

Figure captions

A83.1
General view showing the heterogeneous distribution of inclusions (containing P, Si and K).

A83.2
General view showing different materials forged together: the carbon-rich one (ferrite+pearlite) is darker than the almost pure Fe (ferrite) (etchant: Nital 4%).

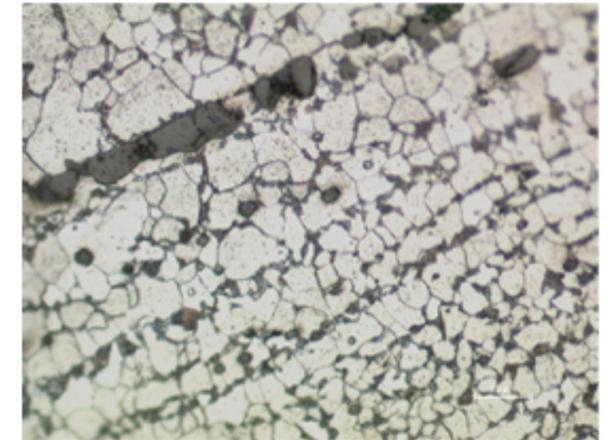
A83.3
Detail showing how the different materials are aligned preferentially, indicating how they have been assembled (etchant: Nital 4%).

A83.4
Detail showing the difference in grain sizes: those with more carbon are smaller (etchant: Nital 4%).

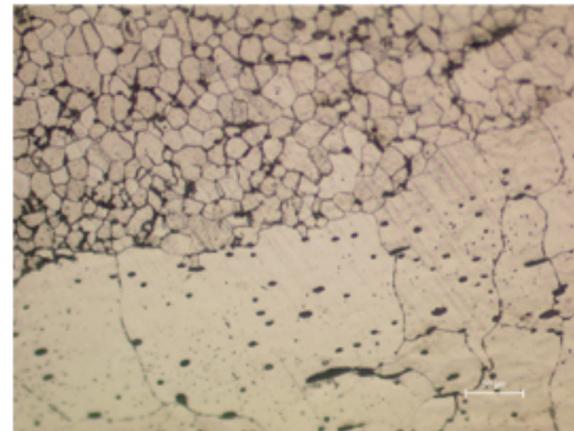
A83.5
Detail of the carbon-rich part: pearlite is distributed overall at ferrite grain boundaries (etchant: Nital 4%).



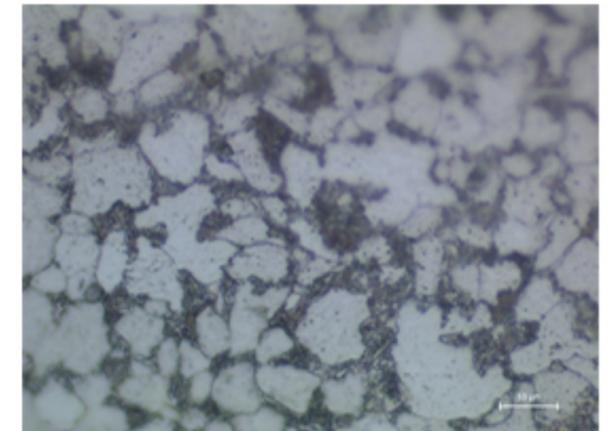
A83.2



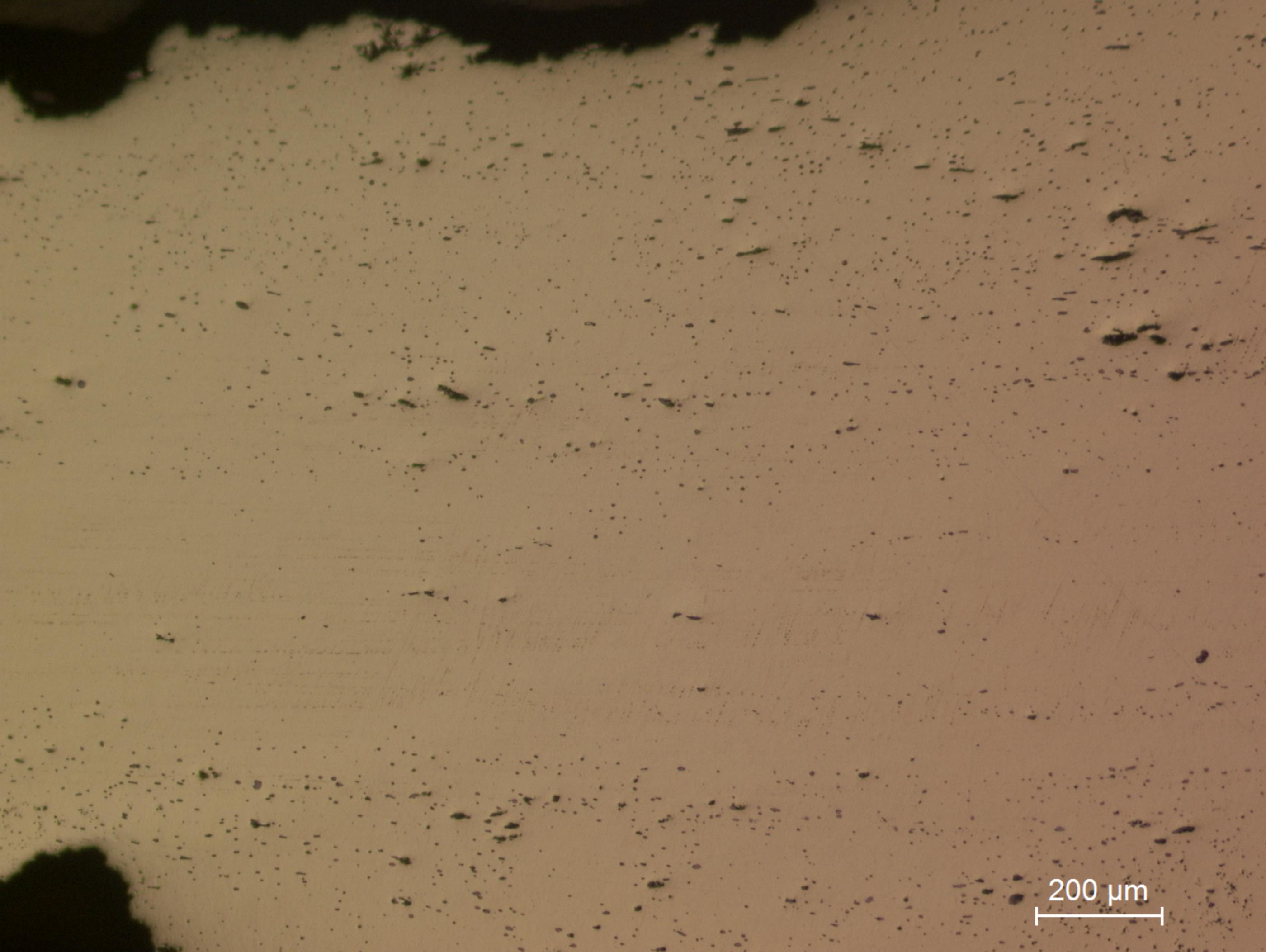
A83.3



A83.4

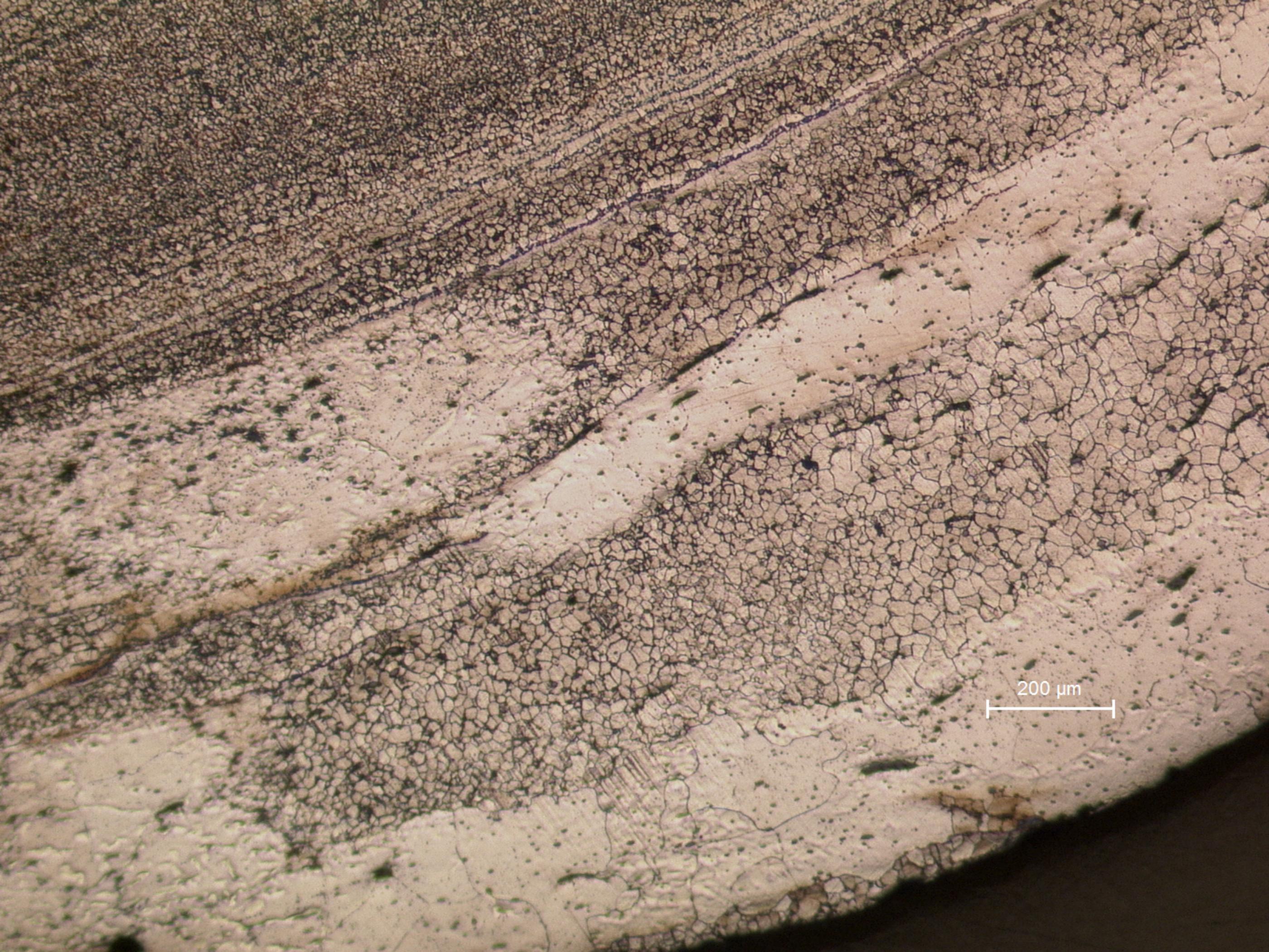


A83.5



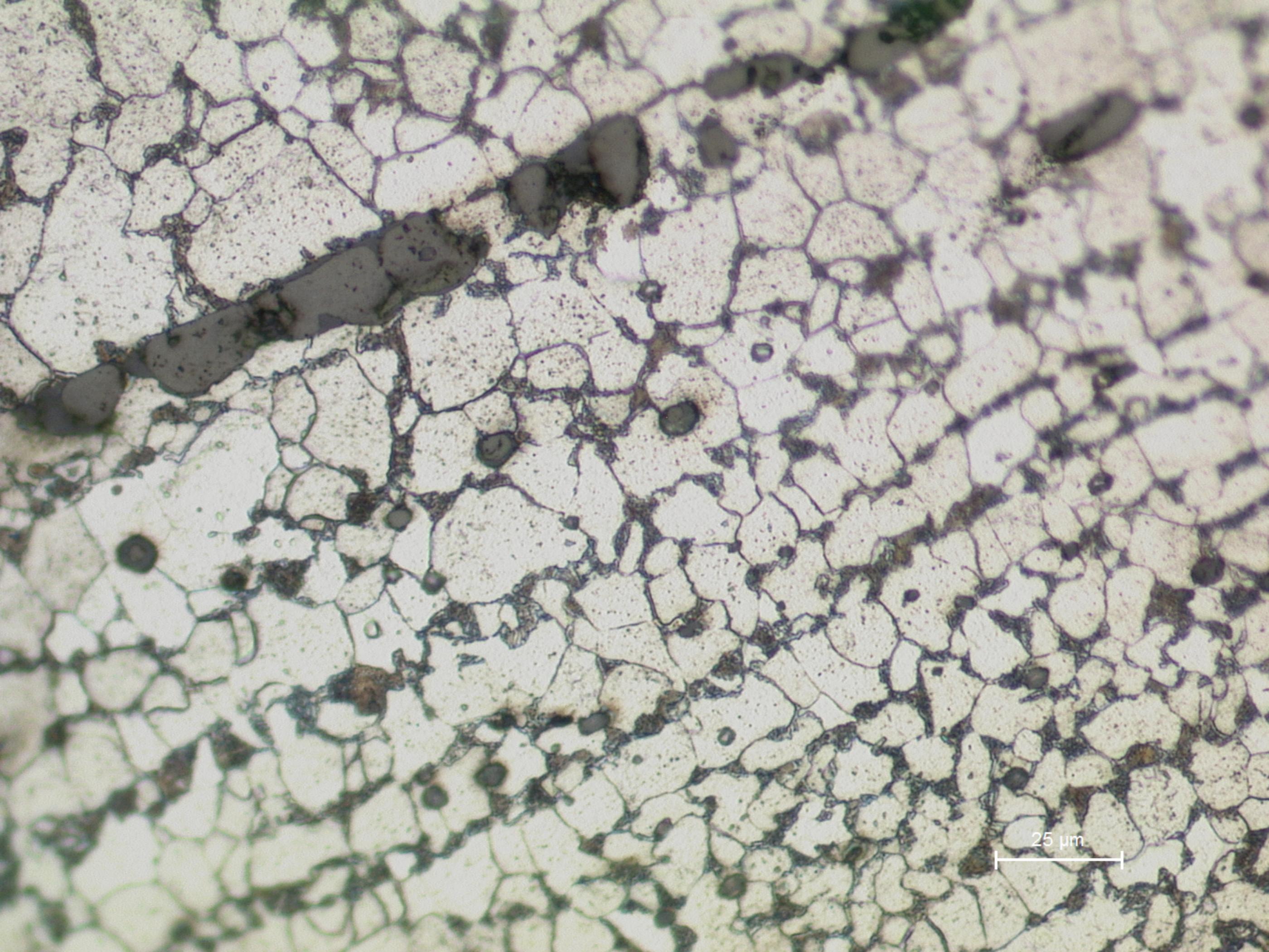
200 μm

A83.1
General view showing the heterogeneous distribution of inclusions (containing P, Si and K).



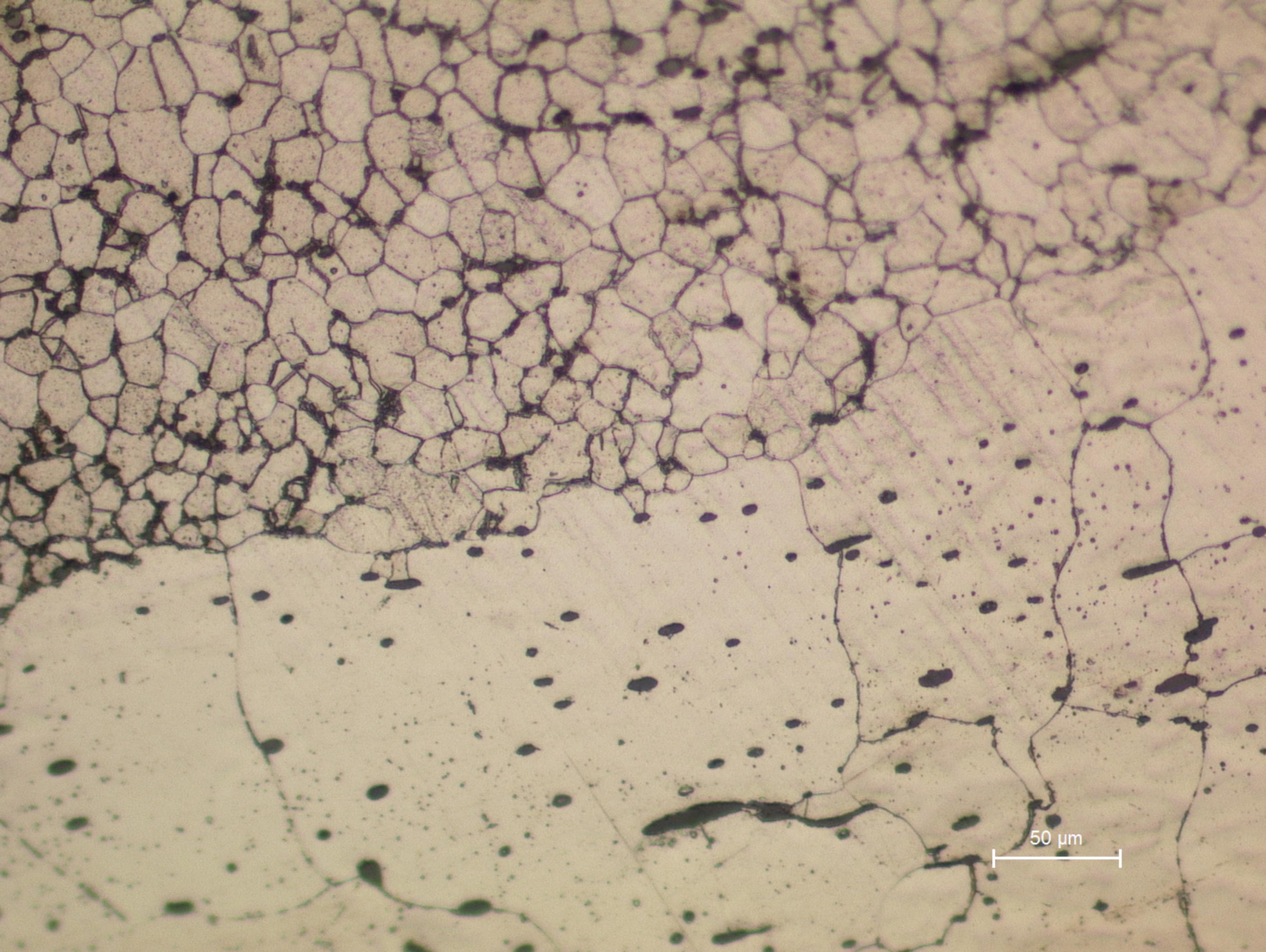
200 μm

A83.2
General view showing different materials forged together: the carbon-rich one (ferrite+pearlite) is darker than the almost pure Fe (ferrite) (etchant: Nital 4%).

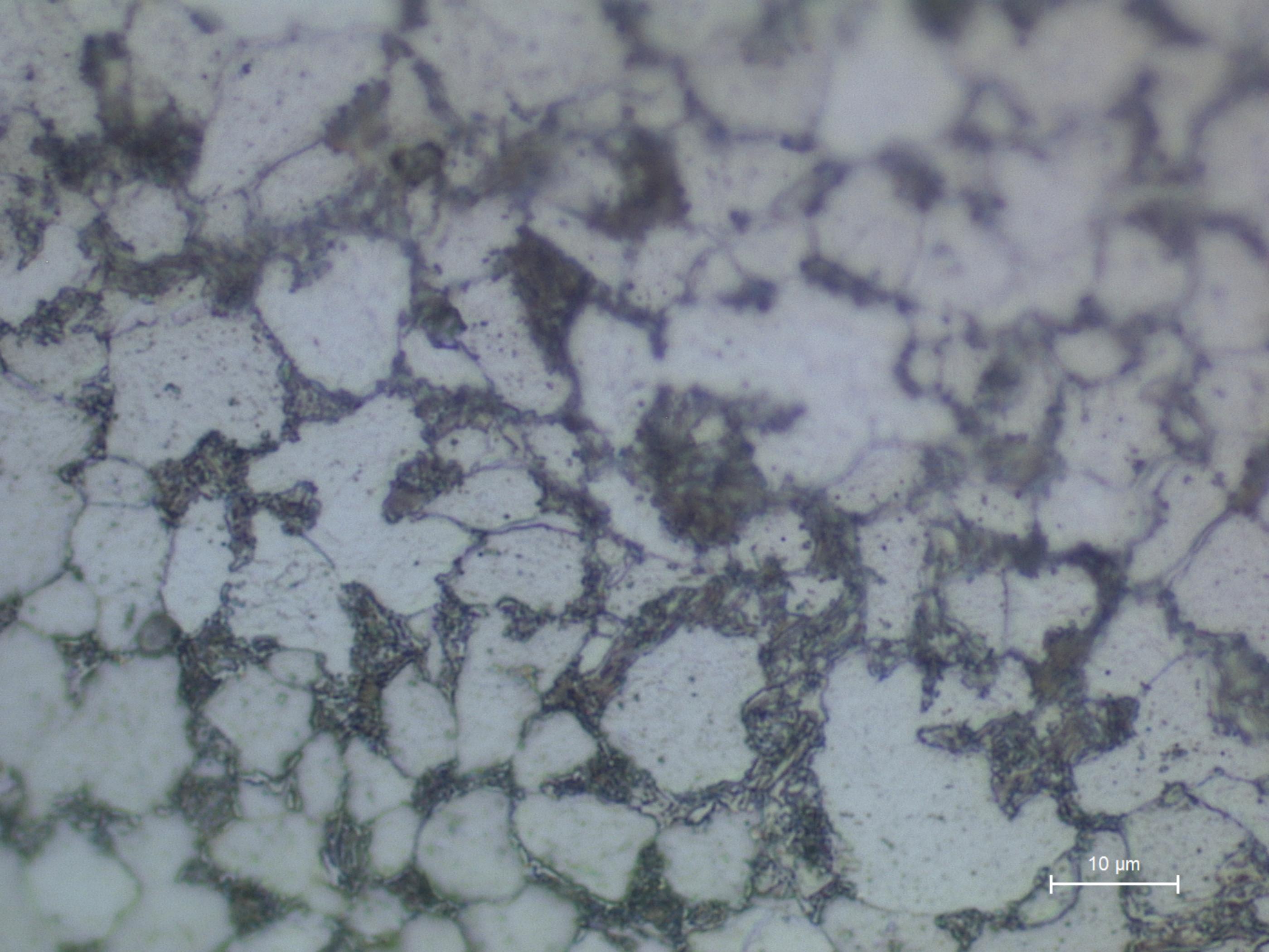


25 μm

A83.3
Detail showing how the different materials are aligned preferentially, indicating how they have been assembled (etchant: Nital 4%).



A83.4
Detail showing the difference in grain sizes: those with more carbon are smaller (etchant: Nital 4%).



10 μm

A83.5
Detail of the carbon-rich part: pearlite is distributed overall at ferrite grain boundaries (etchant: Nital 4%).