

Porosity analysis Image Analysis Report 152b

Sample Description

Sample of aluminum.

Purpose of Analysis

Demonstrate the ability of the image analyzer to discriminate and measure the porosity percentage in the field of view.

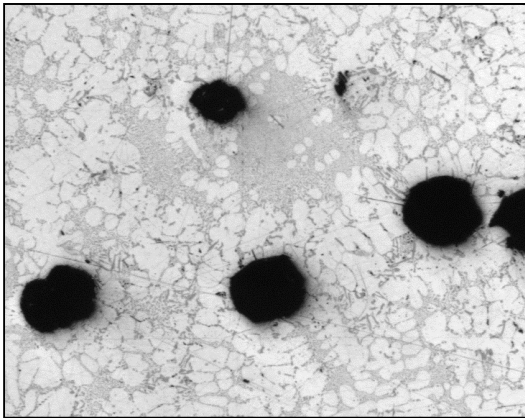


Figure 1: Original image. This picture represents one of the worst fields.

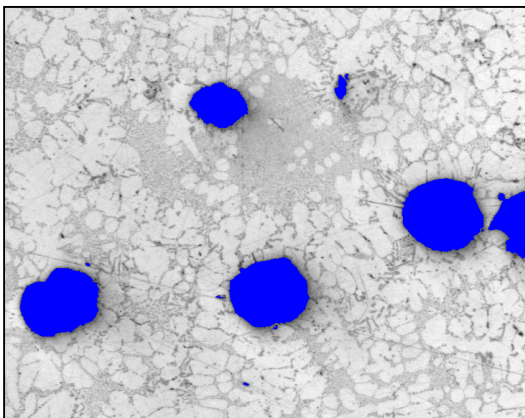


Figure 2: The porosity was binarized into the blue bitplane (Gray Thresholding).

Purpose of Analysis (continued)

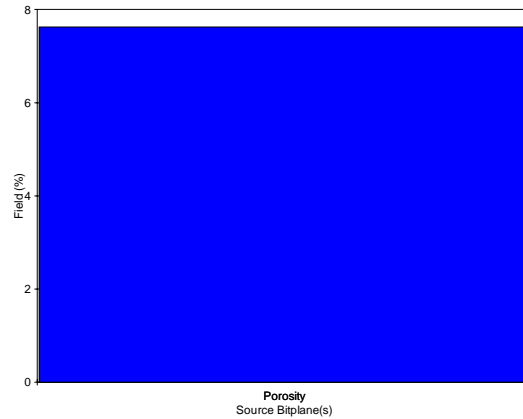


Figure 3: Area percent measurement on blue bitplane (porosity).

Results Summary

	Area Percentage (%)
Porosity	7.63
Matrix	92.37

Equipment

Image Analysis

System: Clemex Vision SE
 Camera: Sony XC-77CE
 Microscope: Nikon Optiphot-2
 Stage: Motorized Marzhauser