

SEM Image Analysis Report

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Scale Information

Pixel to μm Ratio: 0.076923 $\mu\text{m}/\text{px}$

Multi-Otsu Segmentation Analysis

- Porosity (Holes, Cracks): 127.23 μm^2 (0.06%)
- Pollutants, Sediments: 268.73 μm^2 (0.12%)
- Matrix (Base Material): 384.70 μm^2 (0.17%)
- Metallic Particles: 375.24 μm^2 (0.16%)
- High-Reflectivity Contaminants: 202.06 μm^2 (0.09%)

Additional Metrics

Particle Shape Analysis

Shape Type	Count
Irregular	34
Ellipse	6
Polygon	6

Circularity Distribution

Average Circularity: 0.24