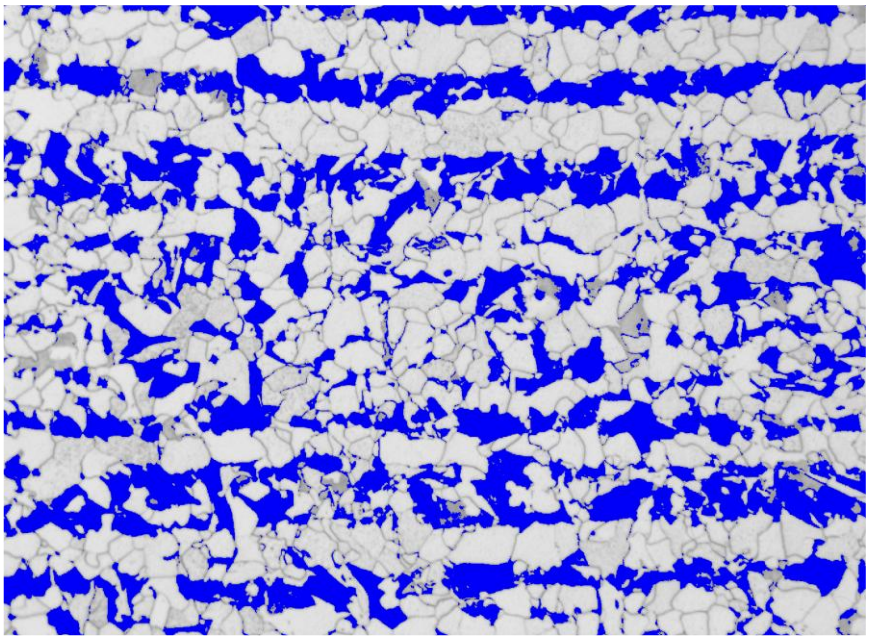
Banding and Orientation of Microstructures
as per ASTM E1268-19

Date:	2025-déc.-03, 10:24:53 GMT-05:00	**t (for CI):**	100
User:		**Units:**	Microns
Sample ID:		**Magnification:**	200
Origin:		**Calibration (µm/pix):**	0,8371 µm/pixel
Location:		**Field Count:**	1
Product Form:		**Field Area (µm^2):**	1004825
You have to analyze more than one field!		**Total Analyzed Area (µm^2):**	1004825

Nature and extent of the banded or oriented microstructural condition in presence:

Figure 1: Typical field



Comment: Unknown

$N_{L\parallel}$: *Number of interceptions per unit length parallel to the deformation axis*

95% CI:	+/-	0	Std Dev:	0,00	Min:	0,02
% RA:		0	Mean:	0,02	Max:	0,02
		Range:	0,02	0,02 µm^{-1}		

$N_{L\perp}$: *Number of interceptions per unit length perpendicular to the deformation axis*

95% CI:	+/-	0	Std Dev:	0,00	Min:	0,02
% RA:		0	Mean:	0,02	Max:	0,02
		Range:	0,02	0,02 µm^{-1}		

$P_{L\parallel}$: *Number of boundary intersections per unit length parallel to the deformation axis*

95% CI:	+/-	0	Std Dev:	0,00	Min:	0,04

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% RA:	0		Mean:	0,04	Max:	0,04
		Range:	0,04	0,04	μm^{-1}	

$P_{L\perp}$: *Number of boundary intersections per unit length perpendicular to the deformation axis*

95% CI: +/-	0		Std Dev:	0,00	Min:	0,04
% RA:	0		Mean:	0,04	Max:	0,04
		Range:	0,04	0,04	μm^{-1}	

AI: *Anisotropy index*

95% CI: +/-	0		Std Dev:	0,00	Min:	1,07
% RA:	0		Mean:	1,07	Max:	1,07
		Range:	1,07	1,07		

Ω_{12} : *Degree of orientation*

95% CI: +/-	0		Std Dev:	0,00	Min:	0,04
% RA:	0		Mean:	0,04	Max:	0,04
		Range:	0,04	0,04		

$SB_{\perp}$: *Mean spacing (center-to-center) of the banded or oriented phase*

95% CI: +/-	0		Std Dev:	0,00	Min:	40,29
% RA:	0		Mean:	40,29	Max:	40,29
		Range:	40,29	40,29	µm	

$\lambda_{\perp}$ (µm: *Mean free path spacing (edge-to-edge)*

95% CI: +/-	0		Std Dev:	0	Min:	33,96
% RA:	0		Mean:	33,96	Max:	33,96
		Range:	33,96	33,96	µm	

BR : *Banding rate* 3,69