Ryan Kowalski

METALLURGIST

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Summary

Metallurgist with 4 years in steel bar and bearing production, covering heat treatment, metallography and mechanical testing. Signs off on about 300 heats a month and leads root cause work on cracks, decarburization and hardness misses. Strong analytical skills and attention to detail, with daily reporting in Microsoft Office.

Skills

- Heat Treatment
- Metallography
- Hardness Testing
- Tensile Testing
- Root Cause Analysis
- Microsoft Office
- Excel
- Word
- Analytical Skills
- Attention to Detail

Experience

Metallurgist 01/2024 - Present

Stark Valley Steel & Bar Canton, OH

Plant metallurgist at a special bar quality steel mill with 2 heat treat lines.

- Review chemistry, hardness and tensile results to release about **300** heats a month against customer specs.
- Set heat treatment cycles for quench and temper lines, cutting hardness rejects from 3.1% to 1.4%.
- Conduct metallography on inclusions, grain size and decarburization for 60 samples a week.
- Lead root cause analysis on 15 customer complaints a year and write corrective actions with production.
- Maintain mill test reports and Excel trend charts in Microsoft Office for weekly quality meetings.

Metallurgical Lab Technician 06/2022 - 12/2023

Buckeye Precision Bearings Massillon, OH

Quality lab at a bearing ring and roller manufacturer.

- Performed Rockwell and microhardness testing on 120 bearing rings per shift.
- Sectioned, mounted and polished samples for case depth checks on carburized parts.
- Recorded test data in Word and Excel reports for 8 automotive customers.
- Verified hardness testers daily against reference blocks and flagged 2 drifting units for repair.

Education

Bachelor of Science 05/2022

The Ohio State University Columbus, OH

Materials Science and Engineering