PRAVEEN B

praveenb00004@gmail.com

7449077981

Chennai, Tamil Nadu, India

PROFILE

Metallurgist with 2 years of experience in metallurgical product development, testing, and quality control in developing and evaluating metallurgical products, processes, and equipment. Skilled in distinguishing and working with iron and steel, with an excellent command of rolling and heat treatment process. Recognized for outstanding technical and analytical skills, providing valuable contributions to the industry.

EDUCATION

ST, PETER'S COLLEGE OF ENGINEERING AND TECHNOLOGY 2018 – 2022 | Chennai

MECHANICAL ENGINEERING

Equipment Handling

- Scanning Electron Microscope
- EDAX Analyzer
- Metallurgical Microscope
- Hardness tester (Rockwell, Vickers)
- XRF chemical composition checker gun
- MPI
- UT

SKILLS / EXPERTISE

Adaptability	Heat treatment process
Teamwork	Non distractive testing
Critical thinking	Failure analysis
Problem Solving	Root cause analysis
Time Management	Chemical composition analysis

LANGUAGES

Tamil | English | Hindi (Basic)

PROFESSIONAL EXPERIENCE

Addison & Co. Ltd. (NOV 2022 – NOW | Chennai, India)

Metallurgist

- Managing laboratory operations and ensuring heat treatment quality
- Handling various testing activities which includes Rockwell, Vickers Hardness testing, Microstructure analysis and chemical composition analysis, macro etching and Grain size measurement
- Preparing Work instruction and control plan for Heat treatment
- Responsible for customer complaint management and supplier audits
- Metallurgical support for new product development to conduct heat treatment trial and report preparation.
- Equipment's handled: Scanning Electron Microscope and EDAX Analyzer, Metallurgical Microscope, Hardness tester (Rockwell, Vickers), Eddy current sorter, XRF chemical composition checker gun, Ultrasonic testing, MPI Inspection
- Calibrated and verified accuracy of density meters and cyanide analyzers.
- Evaluated supplier materials by performing comprehensive audits, ensuring compliance with industry specifications and quality requirements.
- Investigated causes of internal and customer rejections to implement corrective actions
- Conducted failure analysis investigations to identify root causes and recommend corrective actions, preventing future incidents.
- Reduced scrap rates during production runs by closely monitoring process variables and making necessary adjustments promptly.
- Developed new alloy compositions for increased strength and corrosion resistance, contributing to the creation of more durable products.
- Developed and implemented metrics and methods to improve metals, making metals sturdier and adaptable to surroundings.
- Documented and certified material quality of each batch of raw material used in manufacturing by testing batch samples through tensile, compression and shear tests.
- Coordinated with machinery departments and suppliers to perform tests on various raw natural resources.
- Collaborated with interdisciplinary teams to troubleshoot production issues and develop effective solutions, ensuring high-quality output.
- Enhanced material properties with innovative heat treatment techniques, resulting in improved product performance and production support and Heat treatment planning.