

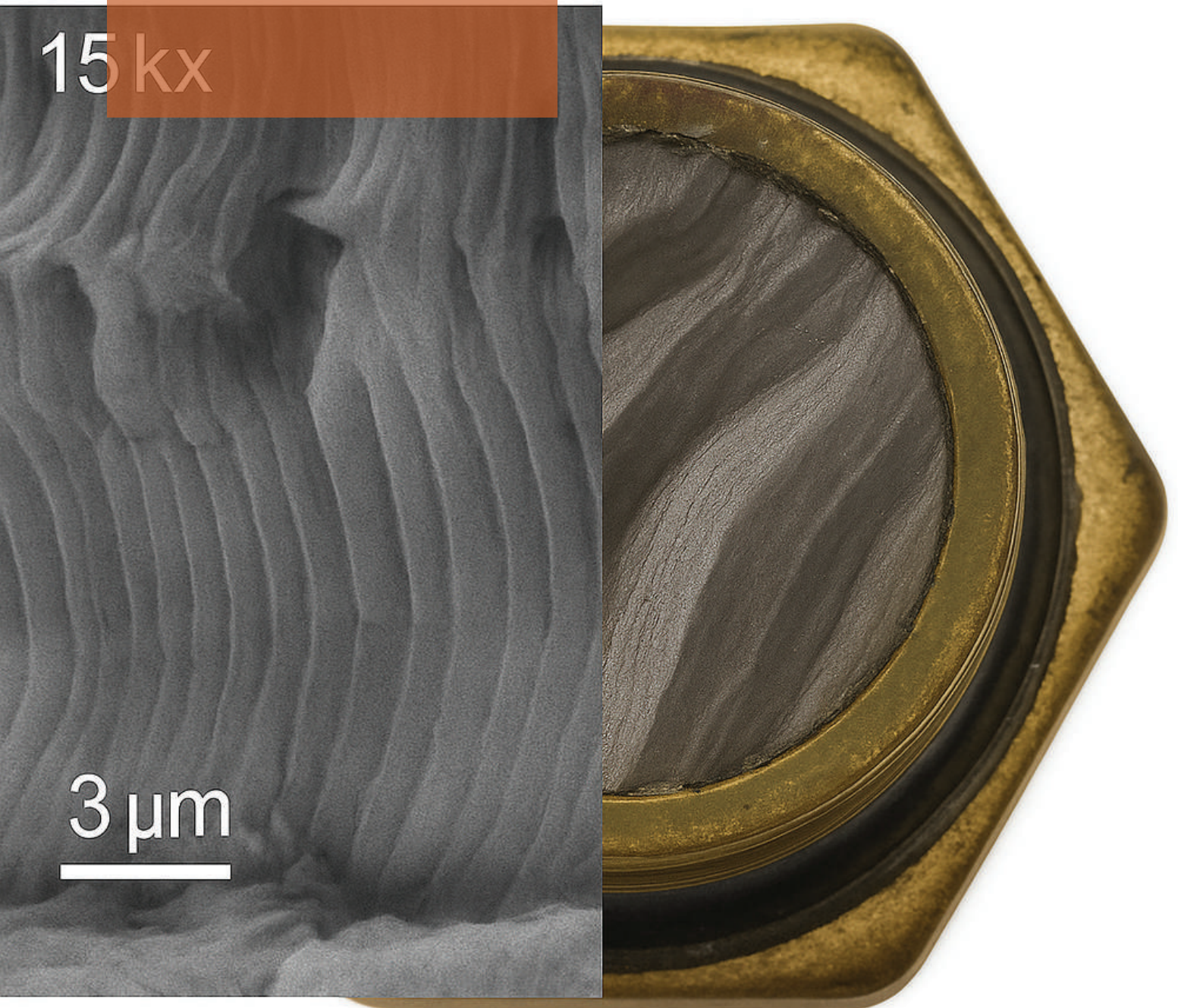
Industrial Solutions

FAILURE ANALYSIS

Failure and root cause analysis by Mett-Bio helps enhance performance and solve issues related to component or system failures

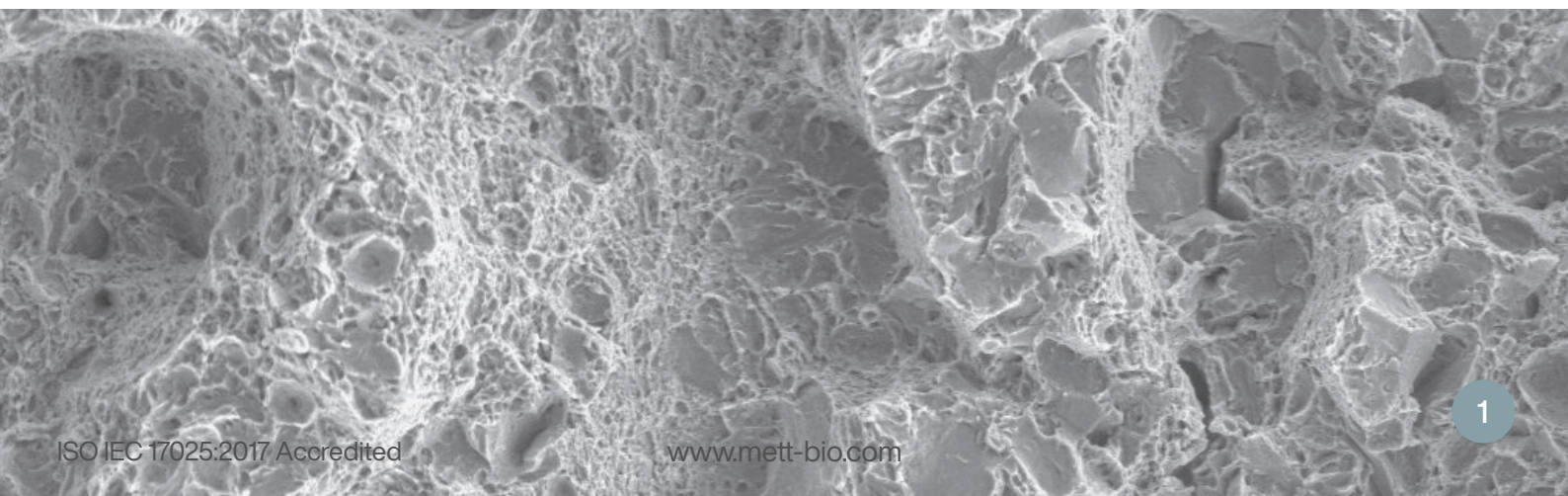
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How it works for our Customers ?

Our failure analysis service provides a systematic approach to identifying the underlying causes of component or system malfunctions. First, we collaborate with our customers to gather details about the failure, including operational conditions and any environmental factors. Then, our team of experts conducts a thorough examination, employing advanced techniques such as microscopic inspection, material testing, and data analysis to pinpoint the root cause. Once identified, we deliver clear findings along with practical recommendations, empowering our customers to implement solutions that minimize recurrence. This proactive approach helps prevent costly downtime and enhances overall reliability.



Why should you get a failure analysis conducted?

Failure Analysis is a comprehensive approach designed to identify how a product or material has failed, uncovering underlying causes that can lead to improved reliability.

At Mett-Bio, our failure and root cause analysis services focus on addressing specific performance issues, enabling customers to resolve both component-level and full-system failures. Our services are 100% customizable, allowing customers to select anything from a basic failure assessment to a detailed investigation involving specialized consultancy and extensive laboratory testing.

Each report we deliver is easy to understand, complete with clear conclusions, testing data, and a wealth of photographs that enhance visual comprehension.

Our goal is to provide clients with actionable insights that promote lasting reliability, ultimately supporting their operational and quality objectives.



The core domain of our failure investigation service relates to metallurgical failures,

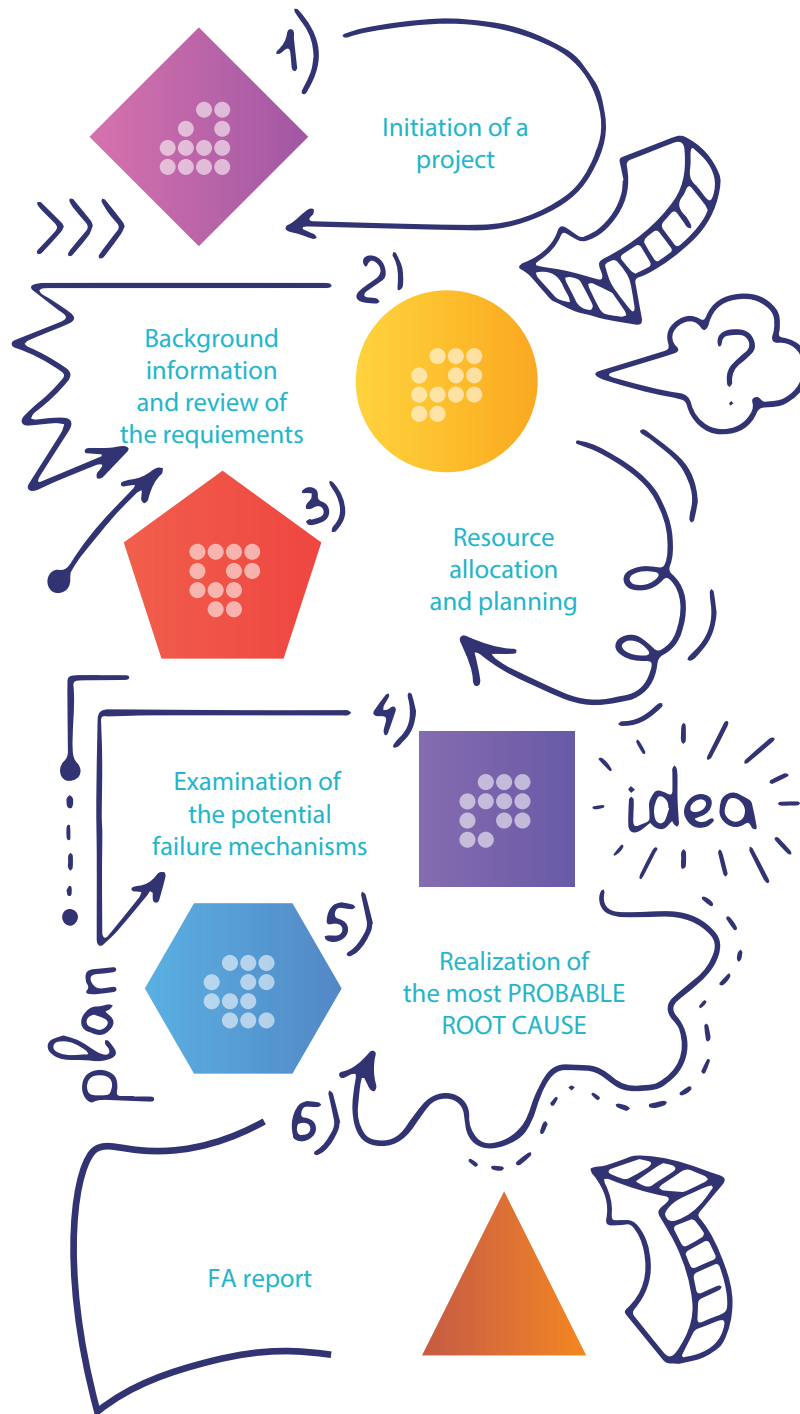
FRACTURE FAILURE INVESTIGATION ??

Our fractography service offers a detailed examination of fracture surfaces to determine the causes of material or component failures. Using advanced characterization techniques, we analyze fracture patterns, revealing insights into failure mechanisms such as fatigue, brittle, and ductile fractures. This service enables us to uncover specific stress factors, material flaws, or environmental influences that contributed to the failure. We provide a comprehensive report featuring high-quality images and expert analysis, giving our clients a clear understanding of the failure origins and actionable recommendations to enhance product reliability and prevent future issues.

CORROSION FAILURE INVESTIGATION ??

Our corrosion failure investigation service is designed to identify and analyze the causes of corrosion-related failures in materials and components. By examining corrosion mechanisms such as pitting, stress corrosion cracking (SCC), galvanic corrosion, and more, we pinpoint the underlying factors contributing to degradation. Using advanced testing techniques and evaluation, we provide a thorough understanding of the corrosive agents and environmental conditions at play. Our detailed reports offer clear insights into the failure modes, along with practical recommendations for corrective actions and material alternatives to prevent future corrosion-related issues, ensuring improved durability and performance.

and how we conduct it...



We provide fully customizable services, from basic failure analysis to comprehensive investigations with expert consultancy and detailed laboratory work. Our reports are thorough and user-friendly, including numerous photographs to enhance understanding through visual reference.

Each report includes complete testing data and a well-structured conclusion section for clear, actionable insights.