



Łukasiewicz
Institute
of Aviation

**CENTER
OF MATERIAL
AND STRUCTURAL
TESTS**

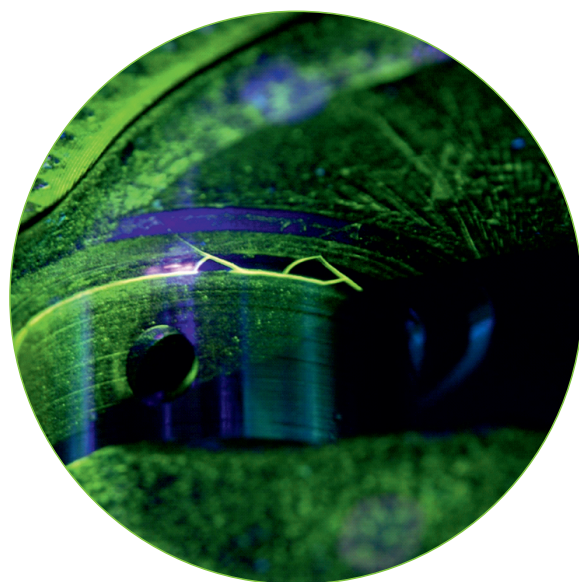
CHARACTERISTICS

Center of Material and Structural Tests at the Łukasiewicz – Institute of Aviation is a leading research facility specializing in material and structural testing for the aviation industry.

KEY FEATURES

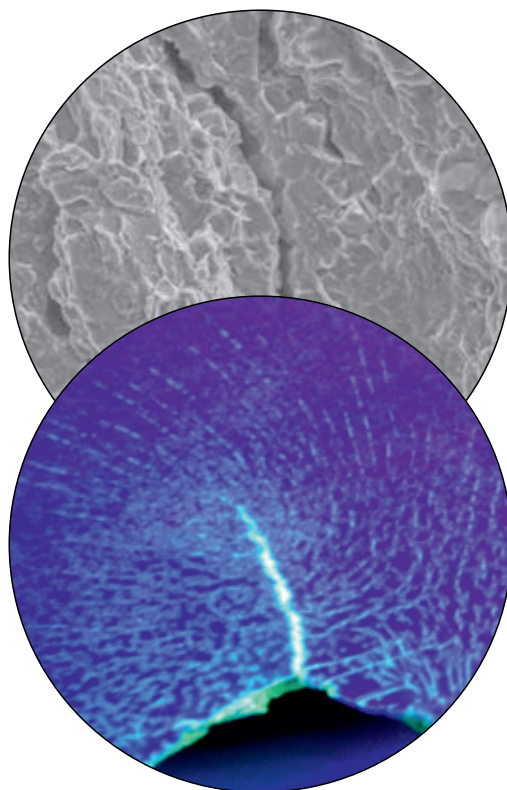
- **Material Testing:** Evaluation of the mechanical properties, durability, and performance of aviation materials through tensile, compression, bending, fatigue, impact, and fracture toughness testing.
- **Structural Testing:** Expertise in static and dynamic testing of critical components, including assessment of structural integrity, load capacity, and fatigue behaviour, as well as ground vibration and acoustic testing.
- **Landing Gear Testing:** Comprehensive testing of landing gear, suspension, and braking systems.
- **Non-Destructive Testing (NDT):** Advanced techniques, including radiography, ultrasonic testing, eddy current testing, magnetic particle inspection, and liquid penetrant inspection, to detect defects without damaging components.
- **Research and Development:** Development of innovative testing methodologies in materials science and structural mechanics.
- **Certification Support:** Comprehensive support for certification processes, including test plan development, compliance with international standards, and preparation of detailed compliance reports.
- **Consultancy:** Expert consulting on material selection, testing strategies, structural analysis, and certification requirements.
- **Commitment to Safety and Reliability:** Supporting the advancement of aircraft structures through advanced testing capabilities and world-class expertise.

Please note that this summary includes only the most crucial information regarding the Center of Material and Structural Tests at the Łukasiewicz – Institute of Aviation, focusing on the services provided and the dedication to ensuring the safety and reliability of aircraft structures, and our full offer exceeds further. If you have any inquiries do not hesitate to contact us.



CERTIFICATES

- AB 792 – PN-EN ISO/IEC 17025:2018.
- S-400 – GE Aviation.
- Pratt & Whitney mechanical tests certification.



The Łukasiewicz Research Network – Institute of Aviation offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.

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