



CENTER OF EXCELLENCE FOR CREEP AND STRESS RUPTURE TESTING

Element Pilsen conducts a wide range of tests and a high quantity of test frames, from sample production to certification. Accreditations include ISO 17025, NADCAP, Airbus, Boeing, Rolls-Royce, Aero Engines, Rolls-Royce Deutschland Ltd & Co KG, Wyman Gordon, Bohler, GEAE, Siemens, Safran, Pratt and Whitney, MTU, and Bombardier.

OUR SERVICES

Pilsen is a center of excellence for creep and stress rupture testing, boasting the most extensive independent laboratory outside of the USA with more than 250 testing frames. The laboratory's standard services include static mechanical, dynamic (fatigue, fracture toughness), creep, and metallurgical testing. Element Pilsen has a fully equipped machine shop for specimen preparation and furnaces for the heat treatment of test materials before testing. The laboratory has capacity for over 2,500 tensile tests per week and is operating 24 hours a day, 7 days a week, 365 days a year.

DESTRUCTIVE TESTING

- Room Temperature Tensile (RTT)
- Elevated Temperature Tensile (ETT) (to 1200°C)
- Creep (to 1200°C) Stress Rupture (to 1200°C)
- Metallography
- Stress Relaxation
- Low Cycle Fatigue (LCF)
- High Cycle Fatigue (HCF)
- Fracture Toughness
- Chemical Analysis (Hydrogen & Oxygen in Titanium)
- Impact Testing (Charpy V-Notch)
- Hardness (HB, HV, HRC)

ACCREDITATIONS & APPROVALS

- CAI ISO 17025
- NADCAP
- Airbus
- Boeing
- Bombardier
- GE
- GKN
- Honeywell
- IHI
- Kawasaki (KHI)
- Mettis Aerospace
- MTU
- Pratt & Whitney
- Rolls-Royce
- Safran
- Siemens



GLOBAL LEADERS IN TESTING, INSPECTION & CERTIFICATION

The Element Materials Technology Group is one of the world's leading global providers of testing, inspection and certification services for a diverse range of materials, products and technologies in advanced industrial supply chains where failure is not an option. Headquartered in London, UK, Element's team of more than 6,000 expert scientists, engineers and technicians operate from around 200 locations across five continents, delivering an extensive range of solutions to customers in critical industries including Aerospace, Connected Technologies, Construction, Defense, Energy, Environmental, Life Sciences and Transportation. Everything we do is designed to help our customers to develop better products, get them to market on time, save time and money, and to minimize the risk to their business from their materials and product development and production activities.

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