Characterisation: Testing and Analysis of Materials and Components

Test and analysis of raw-material, semi-product and finished product.

The characterisation of materials and components enables the properties of these materials and components to be discovered or verified.

The TECNALIA laboratories and qualified personnel offer a comprehensive material and component characterisation service.

AIMED AT

All sectors and companies that require Quality Control or Conformity Assessment of their products.

The service covers raw-material and semi-product characterisation testing and analysis through to the finished product.

SERVICES

- Quality Control / Conformity Assessment Tests
- Testing and Analysis under specific standards or specifications.
- Mechanical Tests (static and dynamic, high temperature and cryogenic)
- Metallography / Materialography Analysis
- Chemical Analysis
- Corrosion Tests
- Non-Destructive Tests.

Metallic Materials (steels, irons, aluminium, copper, nickel, titanium alloys), Polymers, Composites, Ceramics, Paints and Coatings, Welding.

- Single Point Lab. — A single partner, TECNALIA, for your product’s full characterisation.
- Accredited laboratories for quality control and conformity assessment.
- Experts in materials, capable of advising the client in the event of a Non-Conformity.
- Laboratories with over 50 years of experience.
- International recognition.
TESTING FACILITIES

- Mechanical Testing Laboratory
- Materialography / Metallography Laboratory
- Chemical Analysis Laboratory
- Non Destructive Testing Laboratory (NDT)
- Corrosion Laboratory

ACCREDITATIONS & RECOGNITIONS

- **ENAC** accredited laboratory in accordance with standard UNE-EN ISO/IEC 17025: 2005 for Materials Sector with Accreditation No. 4/LE063
  - Metallic Materials.
  - Coatings, Sealants and Adhesives.
- Laboratory with management system certified in accordance with standard UNE-EN 9100:2010
- **AIRBUS** authorised Laboratory for Surface Treatment Plating Control Testing.
- **Nadcap** accreditation for Chemical Processing.
- **Nadcap** MTL accreditation for Materials Testing.
- **ESA** authorised laboratory for “SMT Microsectioning” in accordance with ECSS-ST-Q-70-38.

**ENAC** (Spanish National Accreditation Body) is member of International Laboratory Accreditation Cooperation (ILAC) and its accreditations are recognized around the world.

**TECNALIA** is a private applied research and testing centre with the necessary human resources to generate technological knowledge. A combination of technology, tenacity, efficiency, courage and imagination. **TECNALIA** has over 1,500 expert staff working together towards a common goal: generating business opportunities through applied research and testing services.

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