

Non-Destructive Testing (NDT)

NDT for metallic and composite materials.



To determine the useful life of aeronautical components and prevent possible failures, manufacturers must verify material behavior throughout the product's life cycle: development, production and service.

NDT tests save costs and inspection times by using noninvasive techniques to detect surface and internal defects in composite and metal materials.

Aircraft component NDT inspectors must be accredited under sector-specific regulations (such as UNE-EN 4179 in the European Union).

Our Solution

Applus+ Laboratories offers a nondestructive testing service for metal and composite materials in the product development, production control and maintenance phases for in-service components.

Our NDT teams are qualified up to Level 3 UNE-EN 4179 and carry out the following services:

- Advice on the selection of inspection methods and techniques
- Development and tailoring of the procedures under aerospace regulations
- Automated equipment engineering
- Conducting the tests based on the chosen method (Level 1, 2 and 3)

Our NDT teams work with the following techniques:

- Ultrasound
- Induced currents
- Penetrating liquids
- Magnetic particles
- Borescope
- Visual inspection
- Metallographic replicas

Benefits

- Reduce validation plan times
- Save production control costs
- Optimize maintenance costs