



MATERIALS FOR AERONAUTICS SPACE AND DEFENSE

RESEARCH
INNOVATION
CHARACTERIZATION
ECODESIGN
TRAINING
EXPERTISE



Located in the heart of "Aerospace Valley"

— the cluster bringing together nearly
1300 establishments— Rescoll has made

aeronautics, space and defense one of its

main fields of expertise









Rescoll is committed to meeting the highest standards of quality –its skills have been internationally acknowledged by COFRAC and NADCAP accreditations as well as qualifications by the SAFRAN group and AIRBUS.

With more than 20 years of experience in the field of polymers, composites, advanced materials and surface treatments as well as over 50 patents to its credit, Rescoll plays a major role in national and international research and innovation.

As technical experts on several multi-partnership projects, both French and European, Rescoll teams are currently in charge of developing:

- Materials for vibro-acoustic absorption
- Protective, anti-corrosion coatings

- for aircraft structures
- Composite containers for oxygen and hydrogen
- Processes for dismantling structural bonded assemblies on command
- Coatings for thermal management of satellites
- Thermal conductive composites
- Optical surface treatments for military masks and helmet visors
- Environmental analyses of amunation at end-of-life

Rescoll

is an accredited

Mechanical tests (with instrumented specimens)

laboratory which

will provide you

to meet all your

needs relating to

physicochemical,

thermomechanical

- Tensile strength and compression tests on composites and bonded assemblies

- Thermomechanical behaviour with DSC, MDSC, DMA, TGA, TMA

- Electrical and thermal conductivity

- Chemical analysis: HPLC and FTIR

- Fiber and void content and density

Structural Health Monitoring (SHM)

- Manufacture of test and coupon specimens (autoclave, resin infusion, with solutions filament winding, etc.) machining, bonding of tabs onto specimens, instrumentation

> Ultrasonic NDT with A-SCAN or C-SCAN, tap test, acoustic emissions

 Evaluation of fire behavior of materials, according to the standards in effect

Flammability

Determination of smoke toxicity and density

• Fire resistance of seats, cargo compartment liners

Propagation test on radiating panels

• Flame resistance test

Heat release rate measurement

Fatigue and ageing tests

Ecodesign

Characterization

or mechanical

Life Cycle Assessment (LCA)

characterization

- Sensitivity study (evaluation of environmental gain when parameter is varied)

- Definition and set up of an ecodesign approach

as well as the fire

Rescoll is also a certified training center offering technical courses on various topics: materials, analysis techniques, chemistry regulations and their application.

behavior of your

- Bonding courses recognized by the European Welding Federation (EWF) for professional certification in Europe

Materials fire behavior

materials.

Ecodesign and Life Cycle Assessment (LCA)

Several Rescoll staff members are certified court experts. Rescoll also conducts expertise for research cases in the field of materials, in particular for the European Commission.

Why choose

Rescoll?

Rescoll, a research company specialized in characterization and innovation in the field of composite materials and polymers, puts its skills and knowhow at your service.

Rescoll's PhDs, engineers and specialized technicians are available to provide you with quick, customized solutions and a full range of services.

Qualifications





References

Dassault Aviation

Techspace Aero

Daher Aerospace

Snecma

General Electric

Turbomeca

Messier-Dowty

Thalès Group

Astrium Group

Centre National d'Etudes Spatiales

SME

ROXEL

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