

11 CARBON BRAKE DISKS

- Pressure forming



Nitrogen

TUBES FOR HYDRAULIC CONTROL CIRCUIT

- Heat treatment

ALNAT



Argon
Hydrogen

1 ELECTRIC BATTERIES

- Heat treatment reinforced

ALNAT



Nitrogen
Ammoniac

2 OXYGEN MASKS

- Passenger oxygen mask recharge



Aviator grade oxygen

3 ELECTRONIC COMPONENTS USED IN CIRCUITS

- ALIX equipment, component control testing
- Reflow and wave soldering



Nitrogen

10 TIRES AND SHOCK ABSORBERS

- Inflated with nitrogen

Nitrogen



9 LANDING GEAR

- Thermal spray coating
- ALNAT heat treatment
- ARCAL TIG arc welding



Nitrogen
Argon
Helium

8 ENGINE NACELLE

- ARCAL TIG arc welding
- ALNAT heat treatment of titanium parts
- Autoclave for composite polymerization
- Nacelle paint booth/shop



Nitrogen
Argon
Compressed air

7 ENGINE

- LASAL laser welding
- ARCAL TIG arc welding
- Thermal spray coating
- ALNAT heat treatment
- Air cooling for test



Helium
Argon
CO₂ pellets

TIGHTNESS TESTING

- Quenching circuits Pressurized nitrogen Helium
- Fuel tank Helium
- Small circuits undergoing repair 5% hydrogen in nitrogen

FABRICATION/MANUFACTURING PROCESSES

TIG arc welding : an arc welding process with a non-consumable electrode.
Thermal treatment : a family of processes that use cooling and heating to improve the mechanical properties of a metallic part.
Hot forming : a manufacturing process that consists of deforming and reforming a solid material under controlled conditions.
Polymerization : A chemical reaction to permanently solidify a material (irreversibly).
Extrusion : the act of forming or shaping by forcing a material through a die.
Cleanblast : the blasting of CO₂ pellets onto a surface to clean or scour it.

BOLTING, RIVETS

- Heat treatment of stainless steel and titanium



Argon

4 CARBON-FIBER FUSELAGE

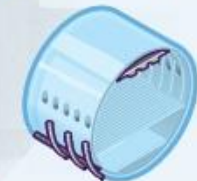
- Autoclave inerting under pressure for the fabrication of fuselage parts
- CLEANBLAST pre-coating surface blast



Nitrogen
Carbon dioxide

5 TITANIUM AND ALUMINUM ALLOY STRUCTURAL ELEMENTS

- ALNAT neutral atmosphere hot forming



Nitrogen
Argon

6 ENGINE PYLON

- ARCAL TIG arc welding
- ALNAT vacuum heat treatment of stainless steel and titanium parts



Nitrogen
Argon
Helium

