



## FUEL CELL FOR MARKET AEROSPACE

*Engineered Elastomer*

PRONAL S.A.

Z.I. ROUBAIX EST - B.P. 18 - 59115 LEERS - FRANCE

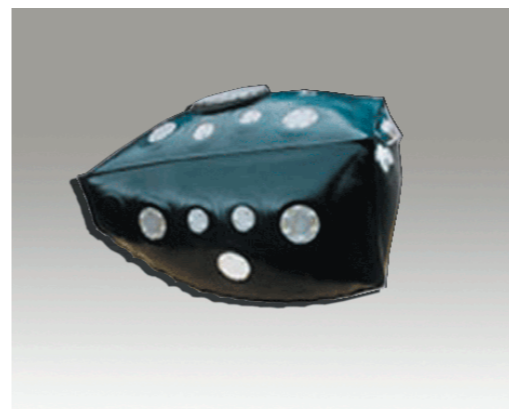
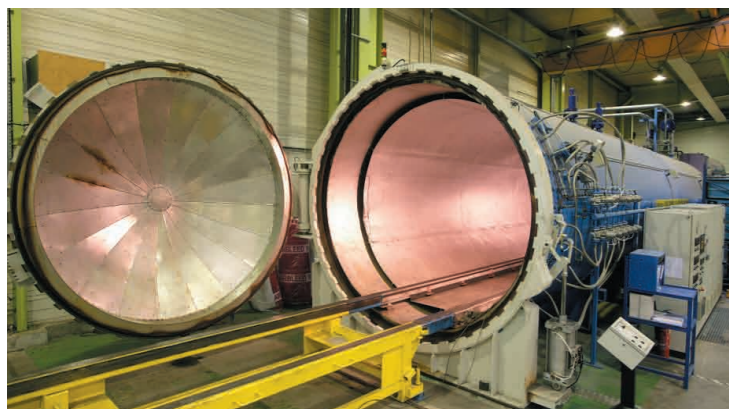


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Pronal presentation

U.A.V.

Fuel cell for military and civil aircraft

Fuel cell for helicopter (Self-sealing / Crashworthy)

Refuelling System Maintenance

*o v e r 3 , 0 0 0 c u s t o m e r s p l a c e t r u s t i n u s*

Pronal is one of the leading companies for the production of flexible transport and storage solutions.

Fabrication process : under vacuum vulcanisation at high temperature and high frequency welding.

Few figures

- Foundation date : 1961
- Turnover : in excess of EUROS 19 millions
- 140 employees
- 2 production sites (France and Tunisia)
- Over 50, 000 products
- ISO 9001 : 2000 certification
- EASA Part 21 G agreement
- EASA Part 145 agreement

Our mission

To provide our customers with reliable industrial solutions for their needs of storage and transport, together with associated services.

Our priorities to customers :

- Full satisfaction
- Technical support for design, installation and maintenance
- Quality approach

Technical rubber coated fabrics characteristics:

- Weight (g/m<sup>2</sup>) : 800 to 1350
- Thickness (mm) : 0.68 to 1,2
- Fabric : polyamid or polyester
- Coating : NBR or NPVC
- Temperature in used : - 20°C to 70°C
- Compatible to different fuels

Accessories :

- Anti-waving foam
- Complete fuel system (pump, level sensor, ...)

Light coated fabric according to TSO C 80

Main fuel cell or additional tanks to increase flight endurance

Design : no limitation in sizes, shapes and capacities

Material :

- Fabric : polyamid or polyester
- Coating : NBR or NPVC
- Compatible to different fuels

Options :

- Composite box
- Wing self sealing blocks
- Various connectors

Quality standards :

- TSO - C80
- MIL - DTL - 6396 F
- MIL - DTL - 5578 D

Main or auxiliary fuel tanks

Design : no limitation in sizes, shapes and capacities. Various connectors

Material :

- Fabric : polyamid or polyester
- Coating : NBR or NPVC
- Compatible to different fuels

Options :

- Self sealing
- Crashworthy
- Partial or full self sealing

Quality standards :

- MIL - DTL - 27422 D

Complete fuelling system

- Transfer pump
- Filtering system
- Filling accessories :
  - . all types of connectors (existing standards)
  - . hoses, hose unit, filling gun
- Spare parts

Maintenance and repair

- EASA PART 145 approved center for flexible fuel tank