InnoSense LLC is about 15 miles from Los Angeles International Airport. We have teaming arrangements with large and small companies to transition our technologies to commercially viable products.
**PHOSPHOROUS-BASED FLAME RETARDANTS - US PATENT PENDING**

**InnoSense LLC** has developed a family of versatile, non-halogenated flame retardant (FR) materials, FirePhob™. They can be permanently applied to fabrics/textiles, plastics and metals for durable protection. Unlike halogenated FR materials, FirePhob™ generated no toxic or corrosive fumes.

- **Without FirePhob™**
- **With FirePhob™**

After 25 washings, FirePhob™ effectively protects fabrics from direct flame.

- The mechanical properties of the treated textiles remain unaffected. Treatments do not leach out and endure over time.
- FirePhob™ is applied using environmentally friendly processes.

**TECHNOLOGICAL BENEFITS**

- Forms a flame retarding glassy layer when exposed to fire
- Phosphorous-based compounds eliminate toxic and corrosive fumes
- Offers high thermal and thermo-oxidative stability
- Processed from solution in non-toxic solvents
- Can be applied as a filler or coating
- Available in polymer or small molecule form to meet the needs of any application
- Applicable to cotton, polyester, spandex, nylon-cotton and fabrics of any weave

**POTENTIAL APPLICATIONS**

- Flame retardant clothing and upholstery
- Protective fire wear
- Specialty coatings for:
  - Exterior wing edges and interior thermoformed panels on aircraft
  - Missile defense rockets
  - Anywhere a fire protective coating/treatment is needed

**Flame retardant coatings for commercial aviation**

**InnoSense LLC** is a technology firm serving the aerospace, defense, energy, and healthcare markets. Learn more about our latest innovations at [www.innosense.us](http://www.innosense.us)