



# Fabrics Protect Sensitive Skin from UV Rays

**Johnson Space Center**

**Solar Protective Factory Inc.  
Madison, Wisconsin**

## Originating Technology/NASA Contribution

- ◆ Space suits keep astronauts cool and block the Sun's ultraviolet (UV) rays
- ◆ A family with two children suffering from sun sensitivities requested NASA's help to develop cool suits for the children



## Partnership

- ◆ Late Johnson Space Center engineer Robert Dotts worked with Solar Protective Factory (SPF) to develop UV-blocking technology in a comfortable and light fabric
- ◆ SPF developed its Solarprotiferous process, which enhances fabric reflectivity and UV absorption with special chemical treatments added during the dyeing process

## Product Outcome

- ◆ Johnson Space Center and SPF provided over 1,000 suits to patients with severe light sensitivities and heat disorders
- ◆ SPF created an entire line of UV-blocking apparel for the public