

Lab Coat Fact Sheet

Lab Coat Type	Fabric Type	Protective Use	Improper Use	How to Request
<p>Fluid Resistant (Barrier)</p> 	<p>Synthetic polyester fabric.</p>	<p>Appropriate for use when working with biological agents, blood, bloodborne pathogens, bodily fluids, tissue, cell lines, microbial cultures and other human derived or potentially infectious materials.</p> <p>Lab coat prevents fluid penetration.</p>	<p>Lab coat will readily burn, melt and adhere to the wearer when exposed to fire or chemical splashes and spills.</p> <p>Lab coat should not be worn when working with pyrophoric (air-reactive), water-reactive or flammable substances, or around open flames (e.g. Bunsen burner).</p>	<p>Fluid resistant lab coats are available at no cost to users.</p> <p>Lab coats are barcoded for free laundry service. These lab coats are assigned to individual users.</p> <p>Request lab coats at labsafety@chla.usc.edu</p>
<p>Nomex (Flame Resistant)</p> 	<p>Nomex IIIA which consists of intrinsically flame-resistant fabric.</p>	<p>Appropriate for use with working with:</p> <ul style="list-style-type: none"> • Polar Organic Solvents: Acetonitrile, Dimethyl Formamide, Dimethyl Sulfoxide, Ethanol, Isopropanol, Methanol, etc. • Corrosive Liquids: Hydrochloric Acid, Sulfuric Acid, Sodium Hydroxide etc. • Oxidizers: Nitric Acid, Hydrogen Peroxide etc. • Pyrophorics: Chemicals that ignite on contact with air such as organometallic compounds, organolithium metal hydrides, finely divided metals, white phosphorus, potassium dithionite etc. • Water-Reactives: Chemicals that react with water or moisture on contact such as alkali metals, alkaline earth metals, sulfuric acid etc. • Carcinogens and other chemical toxins • Open flames (e.g. Bunsen burner) • Electrical arc flash hazards <p>Lab coat will not melt or adhere to the wearer when exposed to fire or chemical splashes and spills.</p>	<p>Lab coat should be worn with a chemical apron when working with non-polar organic solvents such as Acetone, Dichloromethane, Diethylamine, Ethyl Acetate, n-Hexane, Tetrahydrofuran, Toluene etc.</p> <p>For questions regarding chemical apron use contact labsafety@chla.usc.edu</p>	<p>Nomex lab coats are available at no cost to users. Lab coats are barcoded for free laundry service.</p> <p>These lab coats are shared and preassigned to each floor of the Saban and SRT. Additional lab coats may be obtained for your floor if needed.</p> <p>Request lab coats at labsafety@chla.usc.edu</p>
<p>Standard</p> 	<p>100% cotton or cotton/polyester blend fabric.</p> <p>Note: Cotton/polyester blends will burn more readily than 100% cotton when exposed to fire. 100% cotton is preferred for maximum protection.</p>	<p>Appropriate for use when working with physical hazards (e.g. cryogenics), radioactive materials, lasers, and chemicals when use is minimal and the risk of exposure to fire is low.</p> <p>Lab coat provides minimal protection from chemical splashes, spills and fires. Not as fire resistant as Nomex but will not readily burn, melt or adhere to the wearer as fluid resistant lab coats would.</p>	<p>Lab coat should not be worn when moderate to high use of chemicals is required or when the risk of exposure to fire is high.</p>	<p>Standard lab coats must be purchased by users via CHLA's Sourcing and Procurement department. For information contact rvillalpando@chla.usc.edu</p> <p>Barcoding for free laundry service may be obtained.</p> <p>Request barcoding at labsafety@chla.usc.edu</p>