



Nomex® Autoclave Heat Protective Gloves & Gauntlets

- Heat Resistant, Category III Protection
- EN407 Burning Behaviour Maximum Level
- Withstands Heat Contact Of 250°C For 13 seconds
- Does Not Shrink Or Melt
- Double Thickness With Knitted Fabric for Comfort
- Hard Wearing, Autoclavable & Unaffected By Washing
- Good Chemical Resistance & Low Thermal Conductivity
- Available In Four Hand Sizes & Two Lengths



Hundreds of hospitals throughout the world rely on Scilabub's Autoclave heat protective gloves and gauntlets to protect their staff from painful burns. Handling hot objects requires some form of protection for the hands and wrists. Often this protection exchanges one hazard for others. Scilabub's gloves are designed to be effective, comfortable and durable whilst being dexterous.

They have fully shaped fingers, an inset thumb and extend over the wrist. The material used is Nomex®, an aromatic polyamide whose outstanding features led to its use in astronauts' suits, military aviation clothing and racing drivers' suits and gloves. In fact Scilabub's gloves are very similar to those in regular use by Grand Prix drivers. The outstanding wear characteristics give them a long working life. An elbow length gauntlet version is also available.

The gloves give full protection, having double thickness of material in the front and back. Inserts in the sides of the fingers and a shaped, inset thumb provide a comfortable fit. The gloves extend well over the wrist, giving important protection to that area, and are elasticated at the front of the wrist. For comfort and surer handling a knitted Nomex® fabric is used, rather than a woven one.

Gauntlets are identical to gloves from finger to wrist. From the wrist there is a sleeve of woven red Nomex®, extending to the elbow where it is elasticated, to secure it and to avoid an open entry. A strip of red knitted Nomex® is inset into the sleeve to give some degree of stretch, assisting donning and giving a 'snug' fit.

The Nomex® IIIA fibre used to make the fabrics is a blend of Nomex® and a small amount of Kevlar® (used in bulletproof protective clothing). Both are aramids (aromatic polyamides) and are high temperature resistant and non-melt. It has good dimensional stability characteristics and handles and feels like normal light work clothing. The protection is a characteristic of Nomex® itself. No surface treatment is necessary, it does not impair the fabric's ability to 'breathe' and cannot wash out. A popular feature of the gloves is that they can be put through an autoclave cycle with no effect on their performance.

The gloves are Category III which means that they protect against risks that may cause very serious consequences such as death or irreversible damage to health.

The gloves give protection in very hot environments because of the low thermal conductivity and the double thickness. However, care should be taken to keep the gloves reasonably dry or water in the interstices will conduct heat across the surfaces. Nomex® withstands temperatures up to 370°C when degradation begins. When exposed to flame, Nomex® does not melt or drip. It simply chars, without offensive odour and with little smoke, to leave a 'crust', which continues protection. In normal usage a maximum working temperature of 260°C maintains most physical properties over a number of hours. However, short exposure (e.g. flash fires) gives protection at considerably higher temperatures. This glove can withstand heat contact of 250°C for 13 seconds without any harm to the user and for 40 seconds at 100°C – enough handling time for most practices.

Nomex® IIIA is a Meta-Aramid offering high tear strength with excellent thermal insulation and dexterity when handling hot objects. Nomex® IIIA is also inherently flame retardant which means that unlike some other materials, the flame retardant property cannot be washed out. In certain chemically treated cottons these flame retardant treatments are in effect washed into the fabric, this means that they can also be washed out of the fabric thereby reducing the protective qualities of the product. Nomex® IIIA achieves the maximum score for burning behaviour according to EN407, an essential feature when the user is in the proximity of a naked flame or may be subject to a flash incident.

Nomex® is considerably tougher than normal nylon and industrial studies have shown it to have 3 to 15 times the wear resistance of conventional fabrics. It can be repeatedly washed without affecting the protection it offers.

Gloves are made to in accordance to EN ISO 21420:2020 and have been tested to EN388 and EN407. They meet the criteria for CE and UKCA marking (in accordance with EU REGULATION: 2016/425). Further information can be found within the technical digest.



Size	Glove (30cm)	Gauntlet (52cm)
Small - 8	GLO/NS	GAU/NS
Medium - 9	GLO/NM	GAU/NM
Large - 10	GLO/NL	GAU/NL
Extra Large - 11	GLO/NXL	GAU/NXL



It should be remembered that it is often preferred to use a work glove of a looser fit than for normal wear.