scilabub®
protective hand wear

Nomex Heat Protective Gloves and Gauntlets

- **Heat Resistant**
- **Low Thermal Conductivity**
- **Asbestos Free**
- **Double Thickness**
- **Knitted Fabric for Comfort**
- **Does Not Shrink or Melt**
- **Unaffected by Washing**
- **Hard Wearing**
- **Good Chemical Resistance**
- **Suitable For Cold Use Too**
- **Available in three hand sizes and two lengths**

Handling hot objects requires some form of protection for the hands and wrists. Often this protection exchanges one hazard for others. The problem of some asbestos fibres is well known and where stiff materials or mitts are employed, dexterity is sacrificed. Scilabub's gloves are designed to be effective, comfortable and durable. 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 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. The outer layer of the gloves is red. Gloves and Gauntlets are supplied in three sizes medium, large and small. 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 III fibre used to make the fabrics is a blend of Nomex and a small amount of Kevlar. 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.

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The gloves give protection in very hot and very cold 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.

Gloves and gauntlets have been used for handling materials stored in the vapour phase of liquid nitrogen (ca.–180°C) where contact is intermittent. Care should be taken not to contact the liquid nitrogen itself. The fabric has good resistance to chemicals, withstanding the effects of a wide range of chemicals including alkalis, acids and organic materials. It is affected by long exposure to some concentrated inorganic acids. It should be appreciated that the gloves are porous and do not protect against the penetration of chemicals.

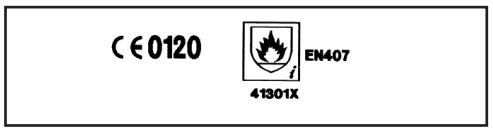
Nomex is considerably tougher than normal nylon and industrial studies have shown it to have 3 to 15 times the wear resistance of conventional fabrics. It can be repeatedly washed.

Medium size covers glove sizes 8 ½ to 9, large 9 ½ to 10 and small 7 ½ to 8. In selecting the appropriate size it should be remembered that it is often preferred to use a work glove of a looser fit than for normal wear. The gloves have a nominal length of 30cm (12 inch) and the gauntlets a nominal length of 52cm (20 inch).

They are made to EN 420 sizes and have been tested to EN388 (1, x 4, x) and EN 407- Burning behaviour 4, contact heat 1, convective heat 3, radiant heat 0, small drops molten metal 1, large drops molten metal X.

The tests were made on and apply to unwashed gloves. However, Nomex III is easily suited to commercial laundering and dry cleaning without need for retreatment.

The gloves and gauntlets carry CE labels:-



	Glove	Gauntlet
Small	GLO/NS	GAU/NS
Medium	GLO/NM	GAU/NM
Large	GLO/NL	GAU/NL

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