



CRYOGENIC WORKWEAR SAFETY GLOVES & APRONS



UK

Cryogenic Gloves & Aprons 2019

Section One

Laboratory Cryogenic Gloves & Aprons



Cryogenic Gloves & Aprons



General Use

- Never immerse gloves in any liquid.
- Always ensure correct size of glove is used.
- Do not use product in hazardous areas
- Read safety instructions before use.
- Use the correct length glove for application.
- Do not use product close to naked flame.

Safe Operation

- Before retrieving an article from a low temperature source ensure the following:
- The gloves are in good condition, there are no snags of the material and the stitched seams are sound.
- Use a **Cryogenic Apron**.
- The gloves are of sufficient length, i.e. should elbow or shoulder length be used.
- **Never immerse gloves into a liquid.**

Cryogenic Gloves and Aprons

The products have been developed to give protection against extreme cold, freezer burn and frostbite, but **must not be immersed in cryogenic liquid**. They are ideally suited to retrieving objects from cryogenic atmospheres and handling of cold objects.

The products are manufactured from a highly efficient insulation with an outer nylon skin.



The products should not be used or worn near an open flame or in a hazardous area in which ignition could occur. Gloves must not be immersed in liquid nitrogen.

Product Range

Wrist (290mm to 320mm long)

Size	Waterproof Part Number	Price
Small Size 8	220135	£118.00
Medium Size 9	220136	£125.00
Large Size 10	220137	£134.00

Mid Arm (340mm to 390mm long)

Size	Waterproof Part Number	Price
Small Size 8	220105	£109.00
Medium Size 9	220106	£116.00
Large Size 10	220107	£122.00
Extra Large Size 11	220108	£129.00

Elbow (470mm to 480mm long)

Size	Waterproof Part Number	Price
Medium Size 9	220115	£132.00
Large Size 10	220116	£137.00
Extra Large Size 11	220117	£143.00

Shoulder (680mm to 1360mm long)

Size	Waterproof Part Number	Price
Small Size 8	220124	£148.00
Medium Size 9	220125	£150.00
Large Size 10	220126	£152.00
Extra Large Size 11	220127	£158.00

Aprons (880mm to 1270mm long all products are waterproof)

Size	Part Number	Price
Small	220170	£126.00
Medium	220171	£137.00
Large	220172	£144.00
Extra Large	220173	£152.00

Safety

- Correct fit contributes to product performance; a tight fit leads to thermal loss.
- Select the appropriate glove length and apron length for your specific application.
- Glove fit should be loose enough to allow for quick removal if necessary.
- Store gloves and aprons in a clean dry space.
- Periodically inspect the condition of your gloves and aprons, replace garments that show excessive wear.

Section Four

CE Testing

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Product Use



Cryogenic Gloves and Cryogenic Aprons

Testing

Cryogenic Gloves and Cryogenic Aprons have been tested to the following CE standards.

Standard	Description
BS EN 420: 2003	General Requirements for Gloves
BS EN 511: 2006	Protective Gloves against Cold
BS EN 388 : 2003	Protective Gloves against Mechanical Risks
ISO 9001-2008	All products are manufacturing to ISO 9001-2008 Quality management system.

Cryogenic Gloves and Aprons

Product Use Information

The Following attached tables of chemicals have no affect on and are therefore acceptable for use with nylon.

The outer shell of the Cryogenic Gloves is nylon.

While the ratings are given for effects on the material itself, it does not address the factor of possible permeation of the solvents at molecular level.

Materials can be affected by the concentration, temperature, presence of other chemicals and other factors.

Therefore, this information should be considered as a general guide rather than an unqualified guarantee. Ultimately the customer, knowing all the relevant factors involved, must determine the suitability of the materials used with various solutions.

Acetaldehyde Acetate Solv. Acetone Alcohols Amyl Butyl Methyl Propyl Aluminium Hydroxide Alum Potassium Sulphate (Alum)10% Aluminium Sulphate Amines Ammonia 10% Ammonia, Anhydrous Ammonium Carbonate Ammonium Chloride Ammonium Hydroxide Ammonium Phosphate. Dibasic Ammonium Phosphate, Monibasic Ammonium Phosphate, Tribasic Amyl Alcohol Anti-Freeze Arsenic Acid Barium Carbonate Barium Hydroxide Barium Sulfate Barium Sulphide Beet Sugar Liquids Benzene Benzol Borax (Sodium Borate) Boric Acid Butadiene Butane Calcium Bisulfate Calcium Bisulfide Calcium Bisulfite Calcium Carbonate Calcium Chlorate Calcium Hydroxide Calcium Sulfate Furfural Gallic Acid Gasoline Gelatin Glucose Glue P.V.A. Glycerine Grease Heptane Copper Cyanide Dichlorethane Ethyl Acetate Ethyl Chloride Ethylene Dichloride Ethylene Glycol Ethylene Oxide Fatty Acids Ferric Sulfate Formaldehyde 40%	Hexane Furfural Gallic Acid Gasoline Gelatin Glucose Glue P.V.A. Glycerine Grease Heptane Hexane Hydraulic Oils (Petroleum) Hydrocyanic Acid Iodoform Jet Fuel (J.P.3, JPR, JP5) Kerosene Ketones Laquer Thinners Lead Acetate Lubricants Magnesium Chloride Magnesium Hydroxide Magnesium Nitrate Magnesium Sulphate Maleic Acid Malic Acid Mercuric Chloride (Dilute) Mercury Methyl Alcohol 10% Methyl Chloride Methyl Ethyl Ketone Methy Isobutyl Ketone Naptha Nickel Chloride Nickel Sulphate Olive Oil Orange Oil Oleic Acid Paraffin Pentane Petrolatum Phosphoric Anhydride(Molten) Pthalic Anydride Phthalic Anhydride Piric Acid Plating Solutions Arsenic Plating 110° C Regular Brass Plating Bath 100° F High Speed Brass Plating Bath 110° F Copper-Cadmium Bronze Bath R.T. Copper-Tin Bronze Bath 160° F	Gold Plating Cyanide 150° F Neutral 75° F Acid 75° F Nickel Plating Watts Type 115° -160° F Sulfamate 100°-140° F Silver Plating 80°-120° F Zinc Plating Aklaline Cyanide Bath R.T. Potasium Bicarbonate Potasium Carbonate Potasium Cyanide Solutions Potassium Ferrocyanide Potassium Hydroxide (50%) Propane (Liquified) Pryogallic Acid Rosins Sea Water Shellac (Bleached) Shellac (Orange) Silver Nitrate Soap Solutions Sodium Acetate Sodium Aluminate Sodium Bicarionate Sodium Borate Sodium Carbonate Sodium Chlorate Sodium Chloride Sodium Chromate Sodium Fluoride Sodium Hydrosulfite Sodium Hydrochlorite Sodium Metraphosphate Sodium Nitrate Sodium Perborate Sodium Silicate Sodium Sulfate Sodium Thiosulphate ("Hypo") Stannic Chloride Calcium Tetrachloride Carbonic Acid Chlorobenzene (Mono) Stearic Acid Stoddard Solvent Sugar (Liquids) Sulfur Chloride Sulfur Dioxide (Dry) Tartaric Acid Tetrachlorethane Tetrahydrofuran Toluene, Toluol Vinegar
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	Copper-Zinc Bronze Bath 100° F Cadmium Plating-Cyanide Cadmium Plating- Cyanide Bath 90° F Copper Plating Copper Plating- Rochelle Salt Bath 150° F Copper Plating- High Speed Bath 180° F Copper (Misc) Copper Pyrophosphate 140° F Copper (Electroless)140° F	Varnish Whiskeys and Wines White Liquor (Pulp Mill) Xylen Zinc Chloride Xylen Zinc Chloride Zinc Sulfate
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Section Five

Instructions



COSHH Considerations

Cryogenic Gloves & Aprons

Introduction

Cryogenic Gloves and Cryogenic Aprons are used in what may be considered as hazardous areas. Consideration to the following should always be given to ensure the safety of the user.

1. Products must be kept clear of naked flames.
2. Where the product is used to retrieve an object from a low temperature environment, such as liquid nitrogen vapours, waterproof products must be used.
3. The product must not be immersed in cryogenic liquids.
4. Store in a clean, dry space.
5. The gloves should only be used if they are in good condition and should be regularly checked to ensure there is no snagging of the material and that the stitched seams are sound.
6. The operator should be aware that the gloves used are of sufficient length for the process being carried out.
7. Operatives should be aware that gloves are available in wrist, mid-arm, elbow or shoulder length.
8. Cryogenic Aprons should be worn in association with Cryogenic Gloves.
9. Whilst Cryogenic Gloves are durable and strong, they should not be brought into contact with any aggressive material. Industrial gloves are for this purpose.
10. Should a particular application be of concern to a user, please refer to the technical department at Cryogenic Workwear Ltd.

Section Six

Purchasing And Delivery



Purchasing and Delivery

Purchasing

- Account customers are supplied on receipt of purchase order.
- Non-account customers are supplied upon payment of Pro-Forma invoice.
- Credit card.
- Bank transfer, by arrangement.

Delivery to UK Mainland

- All products are normally in stock.
- Despatch arranged within 48 hours of receipt of order and / or payment.
- Delivery is usually on a next day service.
- Carriage charge as advised in price lists.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.