



THOR ELECTRICAL INSULATING GLOVES



THOR

Description

Dromex® THOR electrical insulating gloves provides protection against the hazards of an electric shock when in contact with energized electrical parts and equipment.

These gloves are intended to be used exclusively for electrical purposes such as installation, maintenance, repairs and as a basic personal protective equipment for work under voltage of 1kV (Kilovolts), or as additional protective equipment for work voltage higher than 1kV (Kilovolts) (class dependant - refer to table on right for appropriate selection).

These gloves feature the following:

- Anatomically shaped ensuring flexibility and prevents hand fatigue, especially during prolonged wear or intensive use.
- Consists of high quality rubber latex that is flexible and has sweat-absorbing inserts, which allows the wearer to work freely with optimum comfort.
- Fits well when worn with protective leather overgloves, providing mechanical protection needed against cuts, abrasions and puncture hazards (code: DG-OV).



OVERGLOVES

- Manufactured on an automated line, each glove has a unique number and is electrically tested on a computer-controlled test bench.

- The examination certificate issued after electrical/periodical testing is attached to each pair of gloves found inside the glove packaging.
- Are AC (alternating current), DC (direct current) and RC category gloves according to PN-EN 60903:2006 (EN 60903:2003 + AC2:2005) and are characterised by increased resistance:
 - > R – acid-resistant, oil-resistant, ozone-resistant. Category R combines the features of categories A, H and Z as follows:
 - > A – acid-resistant
 - > H – oil-resistant
 - > Z – ozone-resistant

> C – resistant to extremely low temperatures.

- Available in four classes defining voltage requirements:
 - > 0 (5kV), Low voltage
 - > 1 (10kV), High voltage
 - > 2 (20kV), High voltage
 - > 3 (30kV), High voltage

Special Instructions

- **IMPORTANT: Always retain the glove test certificate accompanied within the packaging for every pair of gloves.**
- Do not put on or remove gloves in a potentially explosive environment.
- THOR gloves are manufactured from natural latex which can cause an allergy. To minimize possible allergic symptoms during live working, it is recommended to utilize an anti-perspiration inner cotton glove or hand protective cream such as SECOSAN. If an allergic reaction is experienced, discontinue use and consult your physician immediately.
- None of the materials or processes used in the manufacture of these products are known to be harmful to the wearer.
- The manufacturer has examined under the system for ensuring quality of production by means of monitoring and inspection.
- These gloves are designed to accommodate the basic safety requirements and standards for Personal Protective Equipment.
- The information contained herein is intended to assist the wearer in the selection of personal protective equipment.
- Actual conditions of use cannot be directly simulated in a test environment therefore it is the responsibility of the end user and not the manufacturer or supplier to determine the gloves suitability for the intended use.
- Gloves should be thoroughly inspected before use to ensure no damage is present.

Compliance & Conformity

- CAT. III according with Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
- Approved to EN 60903:2003+AC2:2005, Live working, gloves of insulating material.
- Meets the requirements of EN 420:2003 + A1:2009, Protective gloves, general requirements and test methods.
- CE 1437.
- THOR gloves are examined to check the thermal effects of electrical arc in accordance with the requirements of the following standards:
 - 1/ PN-EN 61482-1-1: 2009
 - 2/ ASTM F2675/F2575M – 13
- ARC test parameters: Protective clothing shall have minimum arc thermal protection where the ELIM is at least 150kJ/m² (3,6cal/cm²) and where the lower value of ATPV and EBT is at least 167 kJ/m² (4 cal/cm²).

Specifications

Style:	Yellow colour, 360mm (± 15mm) long, 5 finger anatomically curved Latex gloves
Fabric composition:	Rubber Latex
Cuff:	Straight
Palm Type:	Smooth
Mass:	346g (±5) per pair (size10)
Technical:	

Type	Part number			
	THOR5	THOR10	THOR20	THOR30
Class/Category R - Resistant to acid, oil and ozone Class/Category	O/RC	1/RC	2/RC	3/RC
Designation of maximum use voltage	AC [V] rms	1000 V	7500 V	17 000 V
	DC [V]	1500 V	11 250 V	25 500 V
Proof test voltage a.c, r.m.s	5000 V	10 000 V	20 000 V	30 000 V
Maximum leakage current a.c, r.m.s (routine test),mA	12	14	16	18
Length (mm)	360	360	360	360
Size	8,9,10	8,9,10	8,9,10	8,9,10
Cuff	Straight	Straight	Straight	Straight

Additional: Electrical protective gloves must be worn with other electrical protective clothing/attire and equipment to ensure complete protection against the hazards of an electric shock incident.

Sizes Available

8-10

Packaging, Storage & Obsolescence

THOR gloves are packed in a polybag and sold individually. Gloves must be transported and stored in their original packaging. It is recommended to store gloves in dry conditions and at ambient temperatures between 5°C and 35°C. Avoid exposure to sources of heating, direct light radiation and sources of ozone. Do not compress or fold gloves whilst in storage.



Checks prior to use

> Risk assessment

A primary hazard related to the use of electrically insulated gloves, is electric shock, when live working is performed. It can be caused by the following:

- improper selection of gloves Class in relation with the maximum value of working voltage of the energized installation,
- mechanical failure of gloves resulting in degradation of their insulating characteristics,
- inconsistent with manufacturer's recommendation and product standard's requirements for storage and handling of electrical insulating gloves,
- use of gloves after time-limit of required periodical inspection/tests necessary for repeated assessment of their technical conditions.

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Latest update: 08/08/2022

> Examination before use

- Before use gloves must be visually checked inside and outside, and inflated for checks of air leaks.
- Do not use gloves when damaged or loose.
- In case of any doubts regarding the glove's protection properties do not use the gloves and rather submit them for electrical retesting.
- Gloves which become wet or has moisture while used must be dried thoroughly in temperatures not exceeding 65°C and powdered with talc when dried.
- Do not exceed the working voltage which shall be appropriate for the class of gloves given in EN 60903:2003.
- No gloves should be used unless they have been electrically tested within a maximum period of 6 months.

> Periodical control tests

- Periodical control tests of gloves shall be performed according to the requirements of EN 60903 standards.
- Gloves of all classes sold within the first year from the production date can be put into use without any additional tests, thereafter gloves of Classes 1 / 2 / 3 must be tested electrically every 6 months.
- Class 00 and 0 gloves can be checked for air leaks and visual inspection while inflated (electrical tests may be optional).
- For gloves frequently used the recommended control test period is 3 months.

Cleaning & Maintenance

Insulating gloves that are soiled should be cleaned and disinfected with a mild detergent.

If compounds such as tar and paint stick the glove, the affected parts must be wiped immediately with a suitable solvent. Avoid excessive solvent and use of wire brushes, sandpaper or other sharp objects.

Do not use kerosene, petrol, paraffin, toluene or xylene to clean gloves and remove compounds as these substances are harmful to the gloves.

Wash gloves with soap and water at temperature not exceeding 25°C .

Dry gloves with a clean cloth and thereafter hang to air dry.

Disposal

Gloves that are damaged and/or out of service shall be disposed of correctly according to local regulations and good disposal practice.

Gloves should be disposed of considering the hazardous substances they were used for.

Please consider recycling.

Sizes Available

Class 0

Code	Size	Palm Length
DG-THOR5-8	S/M	95mm (±2mm)
DG-THOR5-9	M/L	105mm (±2mm)
DG-THOR5-10	L/XL	115mm (±2mm)

Class 1

Code	Size	Palm Length
DG-THOR10-8	S/M	95mm (±2mm)
DG-THOR10-9	M/L	105mm (±2mm)
DG-THOR10-10	L/XL	115mm (±2mm)

Class 2

Code	Size	Palm Length
DG-THOR20-8	S/M	95mm (±2mm)
DG-THOR20-9	M/L	105mm (±2mm)
DG-THOR20-10	L/XL	115mm (±2mm)

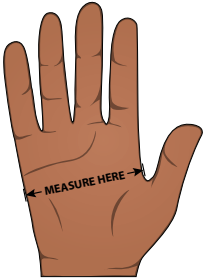
Class 3

Code	Size	Palm Length
DG-THOR30-8	S/M	95mm (±2mm)
DG-THOR30-9	M/L	105mm (±2mm)
DG-THOR30-10	L/XL	115mm (±2mm)

** As per the EN420 standard, actual measurement of gloves are determined by the manufacturer, taking into account the behaviour of the glove material, its thickness (such as leather gloves, PVC gloves etc), elasticity and the intended use.*

** Sizing charts only serve as a guide. Sizes and measurements are for reference only. In order to make an informed decision, always try on the gloves as each glove features a unique construction to accomodate a wearer's preferences.*

Measurement Guide



Materials



- 1. Wing thumb
- 2. Smooth palm & fingers
- 3. Straight cuff

Marking



THOR 10

CLASS 1

Category RC

Size 10

Date/ Batch No.

MADE IN POLAND

EN 60903:2003 + AC2:2005

CE 1437

Dromex CC

Unit 1,1 Blase Road,

New Germany

South Africa 3620

IEC 60417-5216

(Suitable for

live working)

3rd Party

notified

body no.

Area to mark date of

current inspection or

next required inspection

and test or date of issue

Manufacturing date

& first test date

Batch no.

inside glove

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