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XP gloves

Protective gloves for ionising radiations, made of natural rubber (no latex) added with lead oxides

MANUFACTURING PROCESS

Obtained through dipping moulds in a benzene solution of natural rubber and lead-bearing rubber. Many layers of high-density lead-bearing rubber are overlapped to usual layers of natural rubber according to the protection degree required. The result is a perfect homogeneous thickness, without even pin-holes. A (PLC) control program for the fingers' thickness ensure a perfect tactile sensitivity. The internal part of the gloves is coated with a film of natural rubber obtained by a patented process to prevent the direct contact of the hands with the lead-loaded rubber.

The gloves are washed several times and internally coated with a patented silicon layer to facilitate the fitting even without the use of vegetal or mineral powders.

The gloves are washed, dried and packaged in a controlled environment.

PRODUCTS

XP/1*	gloves	Sterile - light type	item 01
XP/2**	gloves	Sterile - medium type	item 02
XP/3***	gloves	Sterile - heavy type	item 03

DESCRIPTION AND USE

item 01

The **thinnest** protective gloves for ionising radiations on the market, powder-free, self-lubricated with inner silicone treatment, especially adapted for angiography, urography, haemodynamics, duodenoscopy, fine surgery, as they offer the maximum tactile sensitivity for protective gloves.

item 02

Protective gloves for ionising radiations with standard thickness, powder-free, self-lubricated with inner silicone treatment, especially adapted in urology, oncology centres, pace-maker arrangement, general surgery.

item 03

Protective gloves for ionising radiations with high thickness, the best compromise between manual ability and protection, powder-free, self-lubricated with inner silicone treatment, especially adapted in traumatology and nuclear medicine.

FEATURES

All XP gloves are marked with the protection level indicated by the number of stars, and with the size; they are **latex-protein free**, and finished at the wrist with a rolled hem, **manually inspected one by one** without using statistic systems, re-sterilizable in autoclave or by ethylene-oxide or by gamma rays. The absorption capacity of XP gloves is **inspected and certified by ENEA** with tests on samples under direct ray and fixed Al 2.5-mm filter.

**PACKAGING
STERILIZATION**

Packaging: the gloves are wrapped in innerwallet, in order to be easily fitted in an aseptic way, with indication of the size, of the right and left glove. External envelope made of medical-grade paper to guarantee sterility. Each box contains the washing, drying, sterilization and store instructions.

Sterilization: by Ethylene Oxide with controlled process also in the degas phase.

PROTECTION**ABSORPTION AND SCREENING PERCENTAGES**

Total filtering 2.5 mm Al	Ray's power		
	60 kV	80 kV	100 kV
XP/1* - light type	36%	31%	27%
XP/2** - medium type	61%	54%	47%
XP/3*** - heavy type	72%	65%	59%

**TECHNICAL
SPECIFICATIONS**

SIZES: 6 - 6^{1/2} - 7 - 7^{1/2} - 8 - 8^{1/2} - 9

Sizes correspond to surgical gloves. Half-size or one size more than that used in surgery is advisable, especially for models XP/2** and XP/3***, in relation to the lower polymer elasticity due to the load of lead oxides.

THICKNESS	XP/1*	XP/2**	XP/3***
Finger thickness (mm)	0.18	0.33	0.46
Palm thickness (mm)	0.20	0.34	0.45
Wrist thickness (mm)	0.20	0.32	0.42
Total length (mm)	290	290	290

PHYSICAL PROPERTIES	XP/1*	XP/2**	XP/3***
Tensile strength	>20 Mpa	>18 Mpa	>14 Mpa
Ultimate elongation	> 500%	> 450%	> 350%
Tensile strength after ageing	>15 Mpa	>14 Mpa	>12 Mpa
Ultimate elongation after ageing	> 400%	> 400%	> 300%

CERTIFICATION

Patent n° 01248473

CE 0434 certification issued by Det Norske Veritas Region Norge AS

Reference standards: DIR 93/42 CEE, UNI EN 455-1, UNI EN 455-2, UNI EN 455-3, UNI EN 550, UNI EN 556, UNI EN 421, UNI EN 1441, EN 1174-2, ISO 10993-5/10/11, DPR 626, BS 2606, U.E. Directive 84/466 Euratom (D.L. 230,19/03/95)

All information provided is based on the most updated knowledge.

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