

# XENOLITE™

by DuPont Technology

**Radiation Protection Garments**

Meets I.E.C. Protection Standards



*Less Weight...Full Protection!*

The Original Lightweight That Fully Protects!



Manufactured By:

**LITE TECH, INC.**

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# LITE TECH, INC.

Lite Tech, Inc. was established in 1992 acquiring the patented **Xenolite** lightweight x-ray protection business and technology from DuPont (Canada). Since then, the Company has expanded rapidly and globally. **Xenolite** and **Xenolite NL** are now the most recognized and tested lightweight x-ray protection products in the world. Nearly 200,000 aprons are sold in over 24 countries. Headquartered near Philadelphia, Lite Tech is one of few fully integrated x-ray apron manufacturers. Lite Tech produces its own proprietary core/sheet materials in two U.S. factories with apron manufacturing in the U.S. and Europe.

**Xenolite** was created by the original 1991 R & D technology from DuPont. **Xenolite** was the world's first lightweight, multi-element, composite x-ray protection material designed to replace lead-vinyl while offering a 30% weight reduction. The Company has developed unrivalled leading-edge capability in the combined sciences of radiation physics and complex highly-filled plastics processing. This technology has enabled Lite Tech to formulate and engineer new products. **Xenolite NL** is the first "lead free" and environmentally friendly material.

Lite Tech's "in-house" sheet production and technical resources enable total quality control at all stages of manufacturing. Quality audits are done annually by SGS to comply with European CE - label standards. The **Xenolite** and **Xenolite NL** products conform to the stringent world standard IEC 61331-1 (both 80 kV & 100 kV). They remain the lightest-weight x-ray aprons in the world offering full protection (mm Pb) even when subjected to more penetrating filtered beams at high kV's.

## Core Material Options – Lite Tech grades/types

**Xenolite NL (No-Lead)** - a lead-free, super-lightweight 2-element composite. **Xenolite NL** is recyclable and safe for non-hazardous disposal. Lead-vinyl is 40% heavier. Product code number is 800, e.g. # 830VS.

**Xenolite ("B")** - the original lightweight composite, 3-element material, with some lead content. **Xenolite** is mid-priced and recyclable. Lead-vinyl is 30% heavier. Product code number is 600, e.g. #630VS.

**EVAL-10** - a 100% lead-based, heavy material that is 15% lighter than lead-vinyl.  **EVAL** is used for lower-priced, non-weight sensitive products as well as gamma-radiation (Nuclear Med) applications. This material is also used for x-ray procedures (CT-assist, thorax) over 120 kV. Product code number is 900, e.g. #930VS.

## Protection Level Options

Standard medical x-ray protection levels available include 0.50, 0.35 and 0.25 mm Pb. Front/back protection is usually in the following combinations: 0.50/0.35, 0.50/0.25, 0.35/0.35, 0.35/0.25 & 0.25/0.25. Worldwide, the minimum protection for medical use is 0.25 mm Pb (except Michigan, 0.50). In Europe and other countries adopting IEC 61331-3, the "light-duty" is 0.25 mm Pb, "heavy-duty" minimum 0.35 mm Pb (front).

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# VEST/SKIRT APRONS

All Vest/Skirt Aprons create maximum weight distribution between the shoulders and hips which eliminates stress on the upper and lower back. Vest/Skirt Aprons also provide greater flexibility to the wearer with regard to sitting, bending, or stooping. Vest/Skirt sizes can be mixed to provide maximum comfort and fit.

## All Vest/Skirt Aprons come with standard features:

- Shoulder pads
- Pockets on vest and skirt
- 9" (23 cm) hanging loops on skirt



**NEW  
Design**

### 620VS and 820VS Weight Relief Vest/Skirt Apron

- Single piece front vest panel makes this model extremely light
- Velcro closure at right side and right shoulder of vest
- Unisex sizes



### 630VS and 830VS Vest/Skirt Apron

- The original design in wrap around protection
- Overlapping panels on vest allow for greater protection as well as greater adjustment
- Male/female sizes



### 635VS and 835VS Elastic Back Saver Vest/Skirt Apron

- Elastic Velcro straps cross at lower back to provide excellent lumbar support
- Eliminates weight on shoulders
- Velcro closure at left shoulder
- Male/female sizes

# FULL WRAP APRONS

All Full Wrap Aprons offer maximum protection. These aprons combine comfort with superior lumbar support which reduces fatigue and upper back stress during long procedures.

All Wrap Aprons come with standard features:

- Shoulder pads
- Adjustable 7" (18 cm) elastic belt comes standard with the Special Procedure Apron (6201/8201) and the Overwrap Apron (6250/8250)
- Pocket



## 6200TS and 8200TS Tabbard Style Apron

- Right shoulder and side Velcro closure allow for easy access
- Simple single piece design makes this model extremely light
- Unisex sizes



## 6250 and 8250 Overwrap Apron

- Full overlapping front panels allow for weight reduction
- Front panel closes at right side and right shoulder with Velcro
- Adjustable 7" (18 cm) elastic belt distributes weight on hips and shoulders
- Male/female sizes





**NEW  
Design**

### 610E and 810E Elastic Tab Apron



- 2" (5 cm) wide elastic tabs allow for comfortable fit around the waist
- Reduces shoulder stress
- Body hugging design shifts weight from shoulders to waist



### 610K and 810K Back Support Apron

- Unique design distributes weight between shoulders and lower body
- Adjustable 7" (18 cm) elastic support belt offers greater lower back support
- Belt attaches to side with key ring
- Velcro shoulder closure



### 610PHP and 810PHP

- Crisscross elastic back provides greater weight distribution
- Velcro tabs at both shoulders and waist allow for quick removal



**4" Velcro strips  
allow for better  
adjustments**

### 610A and 810A Adjustable Weight Apron



- Crisscross shoulder design keeps the apron in place when bending or stooping
- Velcro tabs make it easy to put on and take off
- Reduces bunching on back and on shoulders



### 610Q and 810Q O.R. Quick Drop Apron



- Worn over the scrub suit and under the O.R. gown for quick removal without breaking the sterile field after x-ray procedures are completed



### 610R and 810R Shoulder Release Apron



- Crisscross shoulder design keeps the apron in place when bending or stooping
- Velcro tabs at shoulder and waist allow for quick removal



**610S and 810S  
Strap Apron**

- Features a cotton strap closure which is double stitched for durability
- Velcro shoulder closure



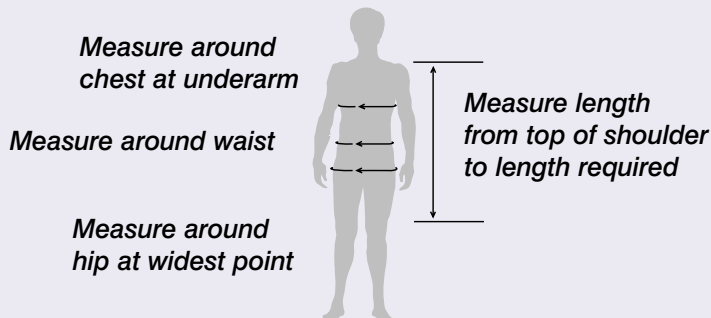
**610B and 810B  
Buckle Apron**

- Features a 2" (5 cm) wide adjustable waist strap with buckle
- Velcro shoulder closure



*Optional Velcro strap closure and/or 6" built in elastic back panels can be added to this apron.*

**BASIC MEASUREMENTS  
TO DETERMINE SIZE OF APRON:**



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**See page 8 or 9 for sizing info.**



The Mobile Apron Rack consists of 8 prongs. It measures 48" from top to bottom. Color: White

<u>Item#</u>	<u>Description</u>
9880	Mobile Apron Rack



### Valet Apron Rack

This valet holds up to 300 lbs of aprons. It is constructed of sturdy painted metal and features wheels that can lock in place. Five hangers are included with each unit. Additional hangers can be purchased separately. Each hanger has a closed loop and cannot be fully removed without dismantling the unit.

**Specifications:**

The valet measures 54" high, 35" wide, and 24" deep. Color: White

<u>Item #</u>	<u>Description</u>
9890	Apron Valet with 5 hangers



### 8 Apron Peg Rack

**Specifications:**

This rack holds four aprons, including vest/skirt aprons and thyroid shields. It is steel construction with rubber tips. There are four mounting holes.

**Specifications:**

It measures 3" high by 24" wide. Color: White

<u>Item #</u>	<u>Description</u>
5136	Apron Rack



### Elastic Back Support Belt

Adjustable 7" (18 cm) elastic belt connects to apron with keyring.

<u>Item #</u>	<u>Description</u>
5100	Back Support Belt



**640T and 840T  
Thyroid Collar**

- Standard size
- Large size  
(over 20"/51cm neck)



**650H and 850H  
Humeral Shield**



**640H and 840H  
Half Aprons**

- Velcro closure system
- 0.50 mm Pb equivalency

<u>Xenolite</u>	<u>Xenolite NL</u>	<u>U.S. Size</u>	<u>Metric Size</u>
640H-1	840H-1	8x10"	20x25
640H-2	840H-2	12x14"	30x35
640H-3	840H-3	16x18"	40x45
640H-4	840H-4	18x24"	45x60
640H-5	840H-5	Set of 3 8x10"	Set of 3 20x25
		12x14"	30x35
		16x18"	40x45



**LT200 - Euro**

Weight: 75 grams\*  
 Lead Equivalency of Front: .75mm  
 Lead Equivalency of Sideshields: .5mm



**LT300 - Astro**

Weight: 78 grams\*  
 Lead Equivalency of Front: .75mm  
 Lead Equivalency of Sideshields: .5mm



\*Weights on glasses subject to change

**VEST SIZES**

<b>SIZE</b>	<b>DIMENSION WxL"</b>	<b>SUIT SIZE</b>	<b>DRESS SIZE</b>	<b>CHEST</b>	<b>MAX HEIGHT</b>
X-Small	20x20"	34-35	2-4	32/33"	5'8"
Small	21x21"	36-37	6-8	34/35"	5'8"
Medium	22x22"	38-40	10-12	36/39"	5'10"
Large	23x23"	42-44	14-16	40/42"	6'0"
X-Large	24x24"	46-48	18-20	44/46"	6'2"
XX-Large	25x25"	50-52	22-24	48/50"	6'3"

**SKIRT SIZES**

<b>SIZE</b>	<b>DIMENSION WxL"</b>	<b>SUIT SIZE</b>	<b>DRESS SIZE</b>	<b>WAIST</b>	<b>MAX HIPS</b>
X-Small	24x19"	34-35	2	21/24"	30"
Small	28x20"	36-37	4-10	25/28"	34"
Medium	32x21"	38-40	10-14	29/32"	38"
Large	36x22"	42-44	16-18	33/36"	42"
X-Large	40x23"	46-48	20-22	37/40"	46"
XX-Large	44x24"	50-52	24-26	41/44"	50"

**Note:** Specify male or female

**WRAP SIZES**

<b>SIZE</b>	<b>DIMENSION WxL"</b>	<b>SUIT SIZE</b>	<b>DRESS SIZE</b>	<b>CHEST</b>	<b>MAX HEIGHT</b>
X-Small	20x34"	34-35	2-4	32/33"	5'6"
Small	21x36"	36-37	6-8	34/35"	5'8"
Medium	22x38"	38-40	10-12	36/39"	6'0"
Tall-Medium	22x40"	38-40T	10-12	36/39"	6'0"
Large	23x40"	42-44	14-16	40/42"	6'0"
Tall-Large	23x43"	42-44T	14-16	40/42"	6'3"
X-Large	24x40"	46-48	18-20	44/46"	6'0"
XX-Large	25x42"	50-52	22-24	48/50"	6'2"

**Note:** Specify male or female

**MENS FRONTAL APRONS**

<b>SIZE</b>	<b>DIMENSION WxL"</b>	<b>SUIT SIZE</b>	<b>CHEST</b>	<b>MAX HEIGHT</b>
Small	24x36"	36-37	34/35"	5'8"
Medium	24x38"	38-40	36/39"	6'0"
Large	24x40"	42-44	40/42"	6'0"
Tall-Large	24x43"	42-44T	40/42"	6'3"
X-Large	25x40"	46-47	44/45"	6'0"
XX-Large	26x42"	48-50	46/48"	6'2"

**WOMENS FRONTAL APRONS**

<b>SIZE</b>	<b>DIMENSION WxL"</b>	<b>DRESS SIZE</b>	<b>CHEST</b>	<b>MAX HEIGHT</b>
X-Small	20x34"	2-4	32-33"	5'6"
Small	22x34"	4-6	34/35"	5'6"
Medium	22x36"	8-10	36/39"	5'8"
Tall-Medium	22x40"	8-10	36/39"	6'0"
Large	24x40"	14-16	40/42"	6'0"
X-Large	25x40"	18-20	43/46"	6'1"

# METRIC SIZING

VEST SIZES		Lengths 53 / 55 / 60 / 63			
SIZE	DIMENSION W(cm)	SUIT SIZE	DRESS SIZE	CHEST	
X-Small	51	44	34-36	80-84 cm	
Small	53	46	36-38	85-90 cm	
Medium	56	48-50	38-40	91-98 cm	
Large	58	52-54	42-46	99-107 cm	
X-Large	61	56	48-50	108-115 cm	
XX-Large	64	58	52	116-130 cm	

SKIRT SIZES		Lengths 50 / 55 / 60 / 63				
SIZE	DIMENSION W(cm)	SUIT SIZE	DRESS SIZE	WAIST	MAX. HIPS	
X-Small	61	44	34-36	53-62 cm	77 cm	
Small	71	46	36-38	63-72 cm	87 cm	
Medium	81	48-50	38-40	73-82 cm	97 cm	
Large	91	52-54	42-44	83-92 cm	107 cm	
X-Large	101	56	46-48	93-102 cm	117 cm	
XX-Large	112	58	50-52	103-112 cm	127 cm	

**Note:** • Specify male or female

WRAP SIZES		Lengths 95 / 100 / 105 / 110 / 115 / 120				
SIZE	DIMENSION W(cm)	SUIT SIZE	DRESS SIZE	CHEST	MAX HIPS	
X-Small	51	44	34-36	80-84 cm	77 cm	
Small	53	46	36-38	85-90 cm	87 cm	
Medium	55	48-50	38-40	91-96 cm	97 cm	
Large	58	52-54	42-44	99-107 cm	107 cm	
X-Large	61	56	46-48	108-115 cm	117 cm	
XX-Large	63	58-60	50-52	116-130 cm	127 cm	

**Note:** • Specify male or female

MENS FRONTAL APRONS		Lengths 100 / 105 / 110 / 115 / 120			
SIZE	DIMENSION W(cm)	SUIT SIZE		CHEST	
		EURO	UK		
Small	61	46	36	86-90 cm	
Medium	61	48-50	38-40	91-98 cm	
Large	61	52-54	42-44	99-107 cm	
X-Large	63	56-58	44-48	108-115 cm	
XX-Large	66	58-62	48-54	116-130 cm	

WOMENS FRONTAL APRONS		Lengths 95 / 100 / 105 / 110 / 115			
SIZE	DIMENSION W(cm)	SUIT SIZE		CHEST	
		EURO	UK		
X-Small	51	34-36	6-8	80-84 cm	
Small	56	36-38	10-12	85-89 cm	
Medium	56	40-42	14-16	90-94 cm	
Large	61	42-44	18-20	95-107 cm	
X-Large	63	46-50	20-22	108-115 cm	

# XENOLITE NO-LEAD

## COMPETITIVE FEATURE BENEFITS

*The following is a fact-based\* comparison of XENOLITE NO-LEAD versus other lead-free aprons in the USA. These competitive aprons are all based on tin or tin-antimony attenuating materials, whereas XENOLITE NO-LEAD is a scientifically balanced, proprietary, patented mixture of two complementary attenuating elements providing lighter weight and better protection.*

- XENOLITE NO-LEAD is the world's lightest-weight apron material when compared at equal protection (80 kV-120 kV).
- Tin-based competitive materials are 15 to 30% heavier for the same protection.
- XENOLITE NO-LEAD delivers and guarantees its stated mm Pb protection at 100 kV. Most tin-based products are designed and tested at only 80 kV which is their peak protection. They do not provide the stated/label protection at 100 kV where there is two to three times greater transmission and exposure than at 80 kV.
- XENOLITE NO-LEAD is the only lead-free material in the USA which meets the tough new IEC world standard for apron protection (IEC 61331-3/1) at both the 80 kV & 100 kV test levels, with 0.15/0.25 mID Cu filtration.
- Several scientific papers have been written about the XENOLITE NO-LEAD innovative technology. It has been tested and approved by hospitals and government agencies in over 10 countries, complying with DIN, JIS and CE marking EC requirements. Copies of test data are available on request.
- At the high kV of some: special procedures(120 kV) the tin-based competitors lose over 20% of their protection. They are well below 0.40 mm Pb. This means a 70% higher exposure. XENOLITE NO-LEAD provides the most consistent protection over the range 60 kV-125 kV and has up to 20% lower transmissions.
- Beware of aprons with labels that do not show protection as mm Pb but only as % attenuation. They may be disguising true protection values. One apron states "> 84% attenuation at 100 kV". This means 16% is getting through, two to three times more exposure than XENOLITE NO-LEAD's 0.50 mm Pb apron and almost double its 0.35 mm Pb apron.
- XENOLITE NO-LEAD is the only truly recyclable material and it is re-used to make new aprons. Alternatively, it can be incinerated or safely disposed of in municipal landfills as a non-hazardous waste. It contains no toxic heavy metals.
- XENOLITE NO-LEAD is latex-free and does not use plasticized PVC/vinyl. PVC/vinyl contains both chlorinated hydrocarbons (a toxic hazard when incinerated) and phthalate plasticizers (a group of compounds in which several are banned due to toxicity).

*\*Test data from Lfas Tests (Spring 2003) and Columbia University New York, NY. (2004)*



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