



**X-RAY DOES NOT JOKE!**



**RADIATION PROTECTION  
APRONS AND RADIOLGY  
ACCESSORIES**



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**CE  
0120**

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## Preface

Aktif Dis Ticaret was established In 1993 by the purpose of serving the medical sector.

Our first commercial activity was importing the document microfilm recorder which lets archiving easy to Turkish market. Started to representate world-famous radiology accessories manufacturers In Turkey In 1995.

Meanwhile we specialized In protective aprons by importing and distributing all over to Turkey. By the experience on this area Aktif Dis Ticaret started to manufacture protective lead and leadfree aprons with its own brand Aktif X-Ray since 2002. You can look into our Aktif X-Ray brand protective aprons and accessories, which manufactured by % 100 Turkish capital In Turkey and exported to world with warrant of Aktif Dis Ticaret, In our catalog.

We are at your service with our prioritized customer satisfaction understanding and total quality policy. Aktif X-Ray is registered to Aktif Dis Ticaret by Turkish Patent Institute.

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## Quality Certificates – (SGS-ISO-UBB Authorization Certificate)



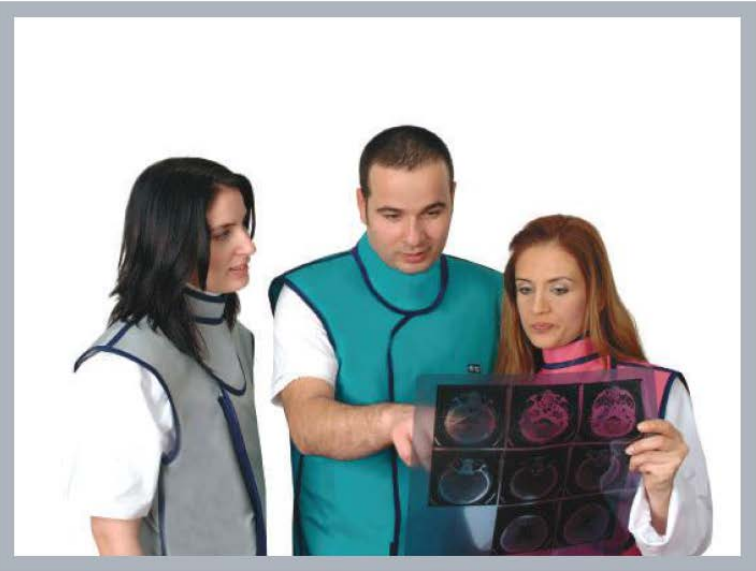


## Useful Information and Recommendations

### General Information about Protective Aprons

Operator should make the right selection for the protective aprons for maximum protection in order to protect his/her body's most affected area by radiation. Especially chest, upper body, gonad and thyroid areas should be protected as a priority.

Aktif X-Ray protective aprons and accessories are manufactured by following the latest technology. With the utilization of advanced radiology instruments, we manufacture modern, light-weight, flexible, including rubber mixed lead models which have high protectivity. Aktif x-ray protective aprons and accessories are designed to be favorable for long term treatments to patients.



**X-Ray Protection Apron**

### Points to Consider During Order Process

It is highly important to wear an apron that fits on your body size.



**X-Ray Protection Apron**

### Recommended Sizes;

#### Chest

- Chest dimensions for Small size 80-90 cm
- Chest dimensions for Medium size 90-104 cm
- Chest dimensions for Large size 104-120 cm

#### Length

- 90 cm apron is for 1.45 to 1.55 cm length
- 100 cm apron is for 1.55 to 1.60 cm length
- 110 cm apron is for 1.65 to 1.70 cm length
- 120 cm apron is for 1.75 to 1.85 cm length
- 130 cm apron is for 1.85 to 1.90 cm length

Please indicate your color preferences.  
Pocket, name or logo can be added upon request.  
Additional snap fastener or rubber belt can be added upon request. (For double sided models)

### Certification

As it is directly associated with cell protection, lead and lead free radiation protection aprons are in the scope of Personal Protection Equipment Regulations/Category 3 (complex design) and must be certificated as lead and lead free. Company can add approved notified body number next to CE sign on the product tag after a notified body certificates company's production models with Article 11 A or 11 B.



## Material Used

### Protective Aprons and Accessories' Cover Material

Standard Fabric: Oxford type fabric which is produced especially for x-ray protection aprons with color variations shown below are used in manufacturing. This fabric is long-lasting and easy wiping in term of hygiene.

## Fabric Color Options



### Color Options

		
Blue	Dark Blue	Gray
		
Pink	Burgundy	Green

## Interior Material

The interior lead or lead free polymer rubber material used for Aktif X-Ray Protective Aprons and Accessories is imported abroad and used in accordance to international standards. Our protective aprons received appreciation in Turkey and many other countries with its high quality materials and perfect workmanship.

Our standard protective aprons and accessories are made out of a light compound which contains polymer and protective material mixture. Besides standard 0,125 mm LE, 0,175 mm LE, 0,25 mm LE protective material thicknesses, upon the customer request, we can produce aprons in different protective values.

### Light Weight

This protective product we called as light weight is 22% lighter but has the same protective capability as the other brands' similar products.

### Lead Free

We can use nature friendly, easy recyclable lead free material with the same protection level of leaded one in our products upon customer request

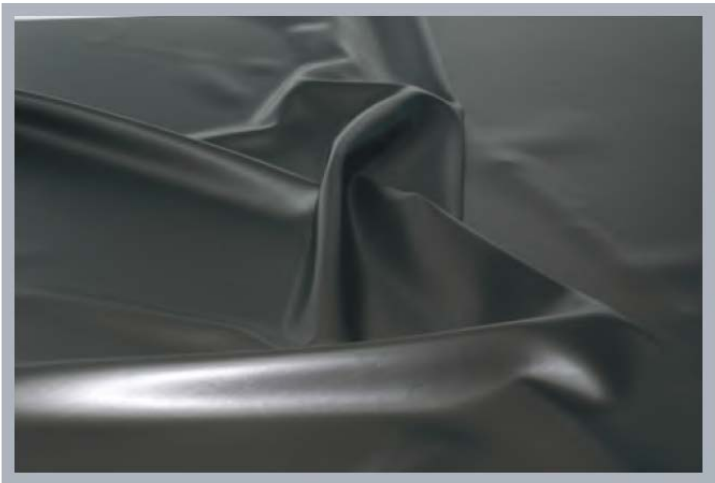
### Protection Value

Light Weight and Lead Free protective materials' protection value is at 80 kV,

0,50 mm Pb protective material protection ratio %99

0,35 mm Pb protective material protection ratio %97

0,25 mm Pb protective material protection ratio %95



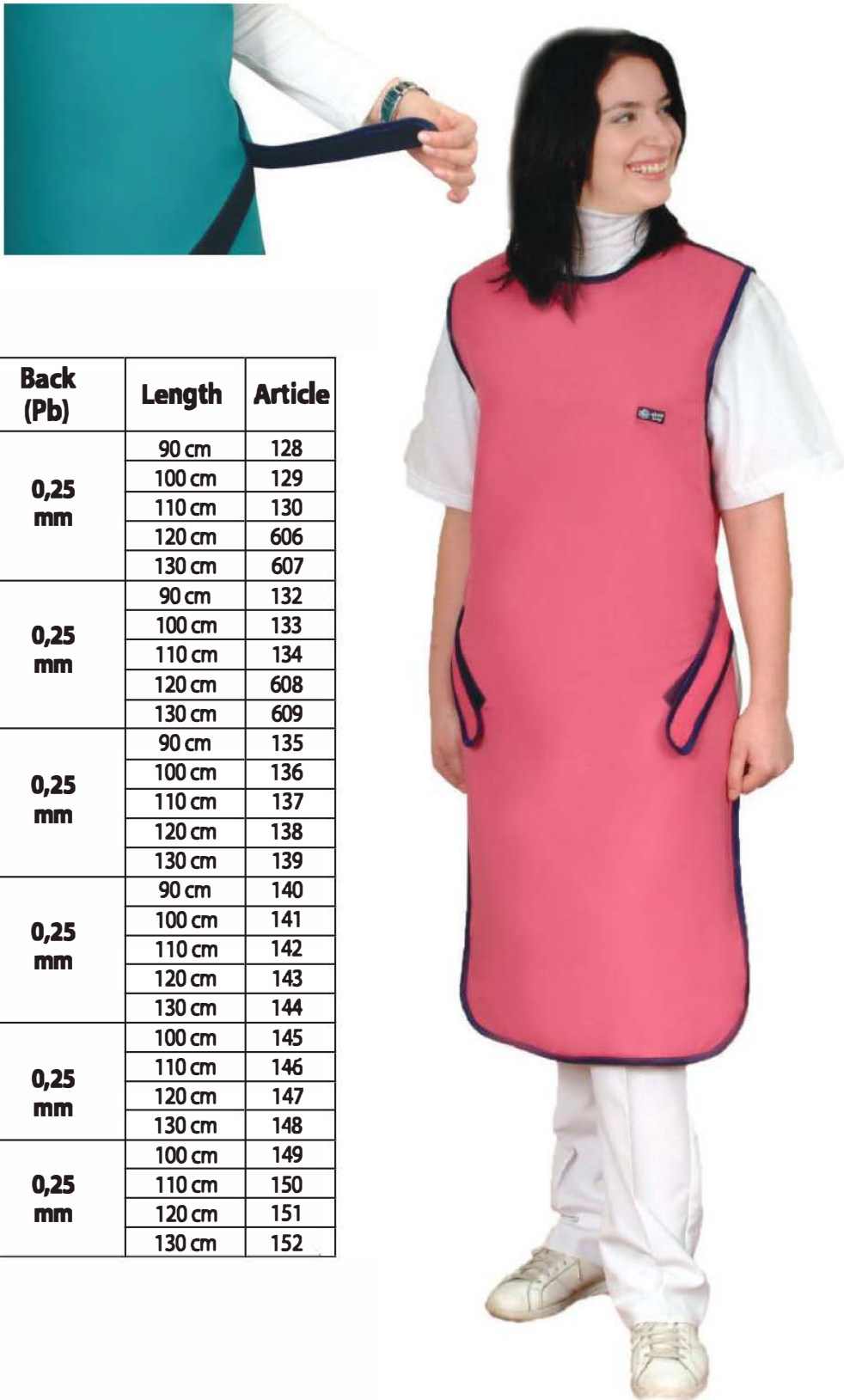
Coat Apron With Velcro

This model is designed for user who are exposed to x-ray for long term. It is an ideal model for protection against scattered x-ray expose. It provides maximum comfort, flexibility and lightness to users by its easy wear and take-off feature.

Thanks to its special design, perfectly covers the shoulder and body and it is adjustable according to user’s body for maximum protection even on shoulder bones.

**Lead**  
LightWeight Lead  
LeadFree (optional)

**Lead**  
Front: 0,35 mm Pb or 0,50 mm Pb  
Back: 0,25 mm Pb



Size	Front (Pb)	Back (Pb)	Length	Article
<b>SMALL</b> Shoulder Width 40 cm	0,35 mm	0,25 mm	90 cm	128
			100 cm	129
			110 cm	130
			120 cm	606
			130 cm	607
<b>Hip Size</b> 60 cm	0,50 mm	0,25 mm	90 cm	132
			100 cm	133
			110 cm	134
			120 cm	608
			130 cm	609
<b>MEDIUM</b> Shoulder Width 48 cm	0,35 mm	0,25 mm	90 cm	135
			100 cm	136
			110 cm	137
			120 cm	138
			130 cm	139
<b>Hip Size</b> 60 cm	0,50 mm	0,25 mm	90 cm	140
			100 cm	141
			110 cm	142
			120 cm	143
			130 cm	144
<b>LARGE</b> Shoulder Width 53 cm	0,35 mm	0,25 mm	100 cm	145
			110 cm	146
			120 cm	147
			130 cm	148
<b>Hip Size</b> 75 cm	0,50 mm	0,25 mm	100 cm	149
			110 cm	150
			120 cm	151
			130 cm	152

Coat Apron For Anesthesia

It provides very comfortable usage with its 16cm elastic belt and large velcro bands on back protection extension.

Users can keep wearing it during your routine x-ray procedures easily.

**Lead**  
LightWeight Lead  
LeadFree (optional)

**Lead Equivalent**  
Front: 0,35 mm Pb or 0,50 mm Pb  
Back: 0,25 mm Pb



Size	Front (Pb)	Back (Pb)	Length	Article
<b>SMALL</b> Shoulder Width 40 cm	0,35 mm	0,25 mm	90 cm	153
			100 cm	154
			110 cm	155
			120 cm	156
			130 cm	157
<b>Hip Size</b> 60 cm	0,50 mm	0,25 mm	90 cm	158
			100 cm	159
			110 cm	160
			120 cm	161
			130 cm	162
<b>MEDIUM</b> Shoulder Width 48 cm	0,35 mm	0,25 mm	90 cm	163
			100 cm	164
			110 cm	165
			120 cm	166
			130 cm	167
<b>Hip Size</b> 60 cm	0,50 mm	0,25 mm	90 cm	168
			100 cm	169
			110 cm	170
			120 cm	171
			130 cm	172
<b>LARGE</b> Shoulder Width 53 cm	0,35 mm	0,25 mm	100 cm	174
			110 cm	175
			120 cm	176
			130 cm	177
<b>Hip Size</b> 75 cm	0,50 mm	0,25 mm	100 cm	179
			110 cm	180
			120 cm	181
			130 cm	182



Coat Apron With Belt

This model is mounted to extension of back protection and it is ideal to distribute the load on shoulders for long-term use.

Lead  
LightWeight Lead  
LeadFree (optional)

Lead Equivalent  
Front: 0,35 mm Pb or 0,50 mm Pb  
Back: 0,25 mm Pb



Size	Front (Pb)	Back (Pb)	Length	Article
SMALL Shoulder Width 40 cm	0,35 mm	0,25 mm	90 cm	102
			100 cm	103
			110 cm	104
			120 cm	600
			130 cm	601
Hip Size 60 cm	0,50 mm	0,25 mm	90 cm	106
			100 cm	107
			110 cm	108
			120 cm	602
			130 cm	603
MEDIUM Shoulder Width 48 cm	0,35 mm	0,25 mm	90 cm	109
			100 cm	110
			110 cm	111
			120 cm	112
			130 cm	113
Hip Size 60 cm	0,50 mm	0,25 mm	90 cm	114
			100 cm	115
			110 cm	116
			120 cm	117
			130 cm	118
LARGE Shoulder Width 53 cm	0,35 mm	0,25 mm	100 cm	119
			110 cm	120
			120 cm	121
			130 cm	122
			100 cm	123
Hip Size 75 cm	0,50 mm	0,25 mm	110 cm	124
			120 cm	125
			130 cm	126

Front Apron

This more preferred model is designed for ones who are exposed to x-ray for long term. This is an ideal model for scattered x-ray from front side of operators. It gives maximum comfort, flexibility and lightness to operators with easy wear and take- off feature

It can be produced with belt and velcro upon customer request.

Lead  
LightWeight Lead  
LeadFree (optional)

Lead Equivalent  
Front : 0,35 mm Pb or 0,50 mm Pb



Size	Front (Pb)	Length	Article
SMALL Shoulder Width 40 cm	0,35 mm	90 cm	350
		100 cm	351
		110 cm	352
		120 cm	353
		130 cm	354
Hip Size 60 cm	0,50 mm	90 cm	355
		100 cm	356
		110 cm	357
		120 cm	358
		130 cm	359
MEDIUM Shoulder Width 48 cm	0,35 mm	90 cm	360
		100 cm	361
		110 cm	362
		120 cm	363
		130 cm	364
Hip Size 60 cm	0,50 mm	90 cm	365
		100 cm	366
		110 cm	367
		120 cm	368
		130 cm	369
LARGE Shoulder Width 53 cm	0,35 mm	100 cm	371
		110 cm	372
		120 cm	373
		130 cm	374
		100 cm	376
Hip Size 75 cm	0,50 mm	110 cm	377
		120 cm	378
		130 cm	379

Double Sided Aprons

This more preferred model is designed for long term x-ray exposure. It gives maximum comfort, flexibility and lightness to operators with easy wear and take-off feature. It can be produced with belt, thick band ed and with Velcro upon customer request.

**Lead**  
LightWeight Lead  
LeadFree (optional)

**Lead Equivalent**  
Front : 0,35 mm Pb or 0,50 mm Pb  
Back:0,25 mm Pb

Size	Front (Pb)	Back (Pb)	Length	Velcro	Belt	Snap
SMALL Shoulder Width 40 cm	0,35 mm	0,25 mm	90 cm	228	253	283
			100 cm	229	254	200
			110 cm	230	255	201
			120 cm	612	256	202
			130 cm	613	257	203
Hip Size 90-110 cm	0,50 mm	0,25 mm	90 cm	232	258	204
			100 cm	233	259	205
			110 cm	234	260	206
			120 cm	614	261	207
			130 cm	615	262	208
MEDIUM Shoulder Width 48 cm	0,35 mm	0,25 mm	90 cm	235	263	209
			100 cm	236	264	210
			110 cm	237	265	211
			120 cm	238	266	212
			130 cm	239	267	213
Hip Size 110-125 cm	0,50 mm	0,25 mm	90 cm	240	268	214
			100 cm	241	269	215
			110 cm	242	270	216
			120 cm	243	271	217
			130 cm	244	272	218
LARGE Shoulder Width 53 cm	0,35 mm	0,25 mm	100 cm	245	274	220
			110 cm	246	275	221
			120 cm	247	276	222
			130 cm	248	277	223
Hip Size 125-140 cm	0,50 mm	0,25 mm	100 cm	249	279	225
			110 cm	250	280	226
			120 cm	251	281	227
			130 cm	252	282	284



Double Sided Apron with Belt



Back Side



Double Sided Apron with Snap



Double-Sided Apron Wrap Model

This wrap model apron provides perfect protection for front side of the body because it covers front completely. For the two sided x-ray expose , overall protection level is kept as 0,25 mm Pb at single front part , so it gives 0,50 mm Pb protection for long term use by a lighter weight apron. It gives maximum protection and preferred by operator of Cardiology department and fields where there is too much x-ray. It has two models with belt and without belt giving maximum protection. It can be weared like a jacket and its cruvaze style overlaps to each other in order to give full protection on front side of human body and gonad region. The shoulder pads decreases the load over the shoulders.

**Lead :**  
LightWeight Lead  
LeadFree (optional)

**Lead Equivalent**  
Front: 0,35 mm Pb or 0,50 mm Pb  
Back: 0,25 mm Pb



Size	Front (Pb)	Back (Pb)	Length	Article
SMALL Shoulder Width 40 cm	0,35 mm	0,25 mm	90 cm	520
			100 cm	521
			110 cm	522
			120 cm	523
			130 cm	524
Hip Size 90-110 cm	0,50 mm	0,25 mm	90 cm	525
			100 cm	526
			110 cm	527
			120 cm	528
			130 cm	529
MEDIUM Shoulder Width 48 cm	0,35 mm	0,25 mm	90 cm	530
			100 cm	531
			110 cm	532
			120 cm	533
			130 cm	534
Hip Size 110-125 cm	0,50 mm	0,25 mm	90 cm	535
			100 cm	536
			110 cm	537
			120 cm	538
			130 cm	539
LARGE Shoulder Width 48 cm	0,35 mm	0,25 mm	100 cm	541
			110 cm	542
			120 cm	543
			130 cm	544
			100 cm	546
Hip Size 125-140 cm	0,50 mm	0,25 mm	110 cm	547
			120 cm	548
			130 cm	549

Vest Skirt Aprons

This so chick skirt and vest combination model provides ease for movement capability by distributing the weight between shoulders and waist. Skirt and vest model can be produced besides of our standard body size given above according to exact body size of operators upon request.

**Lead**  
LightWeight Lead  
LeadFree (optional)

**Lead Equivalent**  
Front : 0,25 mm Pb or 0,35 mm Pb (At the overlapped area in front side, the lead value is double)  
Back : 0,25 mm Pb



Size	Front (Pb)	Back (Pb)	Vest Length	Skirt Length	Article
SMALL	0,25 mm	0,25 mm	60 cm	55 cm	415
	0,35 mm				401
MEDIUM	0,25 mm	0,25 mm	60 cm	60 cm	416
	0,35 mm				402
LARGE	0,25 mm	0,25 mm	60 cm	65 cm	417
	0,35 mm				403

Vest Skirt Apron Wrap Model

This so chick skirt and vest combination model provides ease for movement capability by distributing the weight between shoulders and waist. Vest Skirt Apron Wrap Model provides perfect protection by fully covering front of the body with its overlapping panels (0,175 mm / 0,25 mm Pb). For instance, to provide 0,50 mm Pb protection for front of the body, two 0,25 mm Pb panels are arranged to be overlapped. Besides the light weight in long term usage, wrap models also provides highest level of protection. Vest Skirt Apron Wrap Model can be produced besides of our standard body size given above according to exact body size of operators upon request.

Lead  
LightWeight Lead  
LeadFree (optional)

Lead Equivalent  
Front: 0,35 mm Pb or 0,50mm Pb (At the overlapped area in front side, the lead value is double)  
Back: 0,25 mm Pb



Size	Front (Pb)	Back (Pb)	Vest Length	Skirt Length	Article
SMALL	0,35 mm	0,25 mm	60 cm	55 cm	430
	0,50 mm				420
MEDIUM	0,35 mm	0,25 mm	60 cm	60 cm	431
	0,50 mm				421
LARGE	0,35 mm	0,25 mm	60 cm	65 cm	432
	0,50 mm				422



Surgical Apron

It can be worn under the surgical gown to provide protection to operators in case of continuous shooting. Doctors do not want to take off it by themselves because they should not risk the hand sterilization. That's why an assistant can take off the velcro band, so the protection apron drop down. No need to use this apron if the shooting is finished.

Lead  
LightWeight Lead  
LeadFree (optional)

Lead Equivalent  
Front : 0,35 mm Pb or 0,50 mm Pb  
Back : 0,25 mm Pb



Size	Front (Pb)	Article
50 x 80 cm	0,25	405
60 x 90 cm		406
60x 100cm		407
60x 110cm		408
60 x 120 cm		409
50 x 80 cm	0,35	410
60 x 90 cm		411
60x 100cm		412
60x1 10 cm		413
60 x 120 cm		414



Dental Aprons

Dentists uses medical radiological examination technics as Panoramic, Periapical, Sefalometric, Sinus graphics very often for diagnostic. That's why it is necessary to use protective aprons and thyroid collars during the treatment. Specially for children and pregnant it is not allowed to make shooting without protective apron.

<b>Lead</b>	<b>Lead Equivalent</b>
LightWeight	Lead Front: 0,35 mm Pb or 0,50 mm Pb
LeadFree (optional)	Back: 0,25 mm Pb

Size	Front (Pb)	Back (Pb)	Length Width	Article
SMALL	0,35 mm	0,25 mm	60x60 cm	341
	0,50 mm			320
MEDIUM	0,35 mm	0,25 mm	70x60 cm	342
	0,50 mm			321
LARGE	0,35 mm	0,25 mm	75x75 cm	343
	0,50 mm			322



Patient Protection Apron

This model is produced especially for patient under dental treatment. This model eases the usage and has thyroid protector which provides giving maximum protection to user.

<b>Lead</b>
LightWeight Lead
LeadFree (optional)

<b>Lead Equivalent</b>
Front: 0,35 mm Pb or 0,50mm Pb

Size	Pb	Dimensions	Article
STANDARD	0,35 mm	60 x 100 cm	323
	0,50mm		340



Aprons For Children

Children aprons are produced mostly as front and back protected. They are produced with belt to fit it to the body well and gives maximum safety and ease for usage.

Coat Apron For Children

<b>Lead</b>	<b>Lead Equivalent</b>
LightWeight Lead	Front: 0,50 mm Pb
LeadFree (optional)	Back: 0,25 mm Pb

Size	Front (Pb)	Back (Pb)	Article
3-5 Years	0,50 mm	0,25 mm	501
6-8 Years			502
9-12 Years			503
Set			504



Double- Sided Apron For Children

The models are ease to wear and take off. They are tightened by Velcro bands. This model gives maximum protection and safety for children.

<b>Lead</b>
LightWeight Lead
LeadFree

<b>Lead Equivalent</b>
Front: 0,50 mm Pb
Back: 0,25 mm Pb

Size	Front (Pb)	Back (Pb)	Article
3-5 Years	0,50mm	0,25 mm	505
6-8 Years			506
9-12 Years			507
Set			508



Thyroid Collars

It is produced in order to protect the thyroid region which is one of the most effected part in human body from x-ray. It has 5 models: Standard, Hat Model, Large Hat Model, Panoramic and Children.

It is recommended operators to have their own private thyroid collar as a matter of hygiene (sweating).

The standard model can be mounted to double-sided aprons by snap fastener. It should be sewed to only Front side closed aprons

Lead  
LightWeight Lead  
LeadFree(optional)

Lead Equivalent  
0,50 mm Pb

Model	Pb	Kod
Panoramic	0,50 mm	316
Large Hat Style		317
Standard		318
Hat Style		319
For Children		328
Hat Style Children		319/1



Hat Style Children



For Children



Standard



Hat Style



Large Hat Style

Ovary Shields and Gonad Shields

Ovary is the most sensitive regions of our bodies – where our genitals are located – to X-RAY.

AKTIF X-RAY ovary shields provides ease for use, comfort and cleanliness and starts from 1.00 mm Pb lead level to provide the maximum protection.  
It is produced as 3 different models for 0-9 years , 9-16 years and over 16 years users.

Lead  
LightWeight Lead  
LeadFree(optional)  
  
Lead Equivalent  
1,00 mm Pb

Size	Pb	Article
Small	1,00 mm	312
Medium		313
Large		314
Set		315



Gonad Shields For Males

It must be used to protect gonad region –where our genitals are located-to X-Ray  
It is produced as 3 different models for 0-9 years, 9-16 years and over 16 years users.

Lead  
LightWeight Lead  
LeadFree(optional)

Lead Equivalent  
1,00 Pb

Size	Pb	Article
Small	1,00 mm	324
Medium		325
Large		326
Set		327

Leg Protectors

Leg protector is produced according to customer request and it has velcro fastener which enables usage for every size.

Size	Pb	Article
Standard	0,50 mm	329



Lead:  
LightWeight Lead  
LeadFree (optional)

Lead Equivalent  
0,50 mm Pb





Exclusive Models

We offer exclusive production options with high quality materials and perfect workmanship for our customers.

Arm and Wing Protectors

We can provide stitched or snap fastened arm / wing protectors for aprons on demand. It can be produced in six different color options and desired lead equivalent.



Wing Protectors



Arm Protector

Back Relief Belts

Back Relief Belts are needed due to the heavy weight of protective aprons, disfunctioning of belts in time. Contrary to similar belts' loss of elasticity in time, this design provides long term usage. These belts offer safe hold and ease to wear and take off with its nonslip, adjustable buckle or touch and close fastener. It can be produced in 4 different sizes (S,M,L,XL) and 6 different colors on demand.



Breast Shields

These shields are used in spine shoots. Its length can be adjusted with its touch and close fastener. For full spine shoots, It does not contain lead on neck. So it is ideal for scoliosis treatments.



Protective Caps

Perfectly fitted to head caps can be produced in a variety of lead equivalent values. They provide ease for usage with the touch and close fasteners.



Beret Model

Bonnet Model

Samurai Model

Half Aprons

Half aprons can be used for gonad/ovary protector or many other purposes. It is easy-to-use and can be tightened to waist by means of velcro belt.

Lead  
LightWeight Lead  
LeadFree(optional)

Lead Equivalent  
0,50 mm Pb

Size	Pb	Article
20x25 cm	0,50 mm	301
30x30 cm		302
37x40 cm		303
40x50 cm		304
Set		305



Protective Covers

Any of the protective covers below can be used for all radiological environments. The important point is that you should select the proper size for your needs.

Lead  
LightWeight Lead  
LeadFree(optional)

Lead Equivalent  
0,35 mm Pb or 0,50 mm Pb

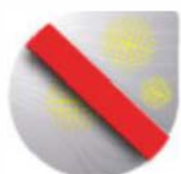


Size	Pb	Article
60x60 cm	0,35 mm	306
90x60 cm		307
120x60 cm		308
60x60 cm	0,50 mm	309
90x60 cm		310
120x60 cm		311

## ANTIBACTERIAL SILVER LINE RADIATION PROTECTORS

### PURE SILVER AND PURE PERFORMANCE

Rego X-Ray combines x-ray protection with additional protection against bacteria, odour and offers an anti-static performance as well as a cooling effect.



#### ANTIMICROBIAL

Protection against growth of bacteria and fungus



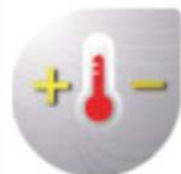
#### ANTI-ODOR

Eliminates odor in a natural way



#### ANTI-STATIC

Offers protection against electrostatic charge



#### THERMOREGULATION

Keeps you cooler during a long time treatment



#### DURABLE

Permanent effect during the whole life of X-ray protection cloth



### PURE SILVER AND PURE PERFORMANCE

Our silver line fabrics used in X-Ray protective aprons offers much more advantages when compared with regular ones.

Rego X-Ray silver line fabrics are produced with silver threads as its name suggests.

These silver threads have antimicrobial affect so it provides protection against growth of bacteria and fungus that cause odor. At the same time these threads have anti-static and thermoregulation features.

Fibre surface: no nanotechnology or complex chemical formula, just natural silver



Available in 4 colors: light-blue, navy-blue, emerald green and bordeaux.





Racks

It is important to store aprons in proper condition in order to long last their use life. At the same time, easy reach, user friendliness, small size and easy mounting are essential points of storage conditions.

**Wall Mounted Apron Rack : (2 arms -3 arms -5 arms):**  
This user friendly and ergonomic hanger help to long last your apron's life . Special hooks can be mounted to this model for skirts.



**Mobile Apron Rack Stainless Stell (5-10)** This mobile racks have metal foots and strong wheels which makes it to move easily. 5-10 aprons can be hanged.

**Mobile Apron Rack:** With this rack you can store up to 10 aprons by using natural wooden or steel hangers. Please indicate the type and quantity of the hangers with your orders.



Model	Artidle
Wall Mounted Rack For Gloves	400008
Wall Mounted Rack For Two Aprons	400025
Wall Mounted Rack For Three Aprons	400105
Wall Mounted Rack For Five Aprons	400104
Mobile Rack For Five Aprons Stainless Steel	400011
Mobile Rack For Ten Aprons Stainless Steel	400013
Natural Wooden Hanger	400015
Mobile Apron Rack	400111
Lux Mobile Rack with Shelf	400112

Wall Mounted Rack For Aprons



Wall Mounted Rack For Gloves

This special hanger has very important role for keeping lead gloves lifelong.

**Natural Wooden Hanger:** Strong wooden body, stainless steel hook part and proper design long lasts your apron's life. Capacity is only one apron. Color is teak.



Steel Rack

Lead Eyewear and Protective Masks

Lead Eyewear

Our lead eyewear is well-selected and gives the highest protection and comfort of use to operators. Panorama type eyewear is advised to be used in areas where there is radiation expose risk from sides of the head.  
PS: According to prescription of user, optically corrected lenses can be produced for panorama model.



Model	Pb	Article
Panorama	0,75 mm	700
Ultralite 99	0,75 mm	701
Fitover	0,75 mm	702
Ultralite 9935	0,75 mm	704
Ultralite 9941	0,75 mm	705
Alumillities 99AL	0,75 mm	706



Protective Masks

Panoramic Half Protection Mask

A mask of leaded acrylic protection – covering over to almost complete surface of the face-can be applied.  
It is ideal for minimum bad –effect of radiation.  
It can be cleaned very easily.  
It must be kept away from high pressure and temperature.



Panoramic Half Protection Mask

Panoramic Full-Face Protection Mask

Leaded acrylic mask protects the complete face from forehead to chin. It has 20 cm length.  
Adjustable headband gives use of comfort. It must be kept away from high pressure and temperature.

Model	Pb	Artidle
Panoramic Half Protection Mask	0,10 mm	707
Panoramic Full-Face Protection Mask	0,10 mm	708



Panoramic Full-Face Protection Mask

Lead Surgical Gloves

These gloves are made of natural dry rubber mixed with lead oxide. The mix of these two raw materials grants high elasticity and softness combined with the best x-ray protective curve without negative peaks typical of other protective materials. Each single gloves is controlled and tested by specialized operators that verify the full conformity to the Standards requisites and to the strictly requirements defined by our Quality Management System.

Models: XP-1\* Light Type XP-2\*\* Medium Type XP-3\*\*\* Heavy Type

Where To Use :

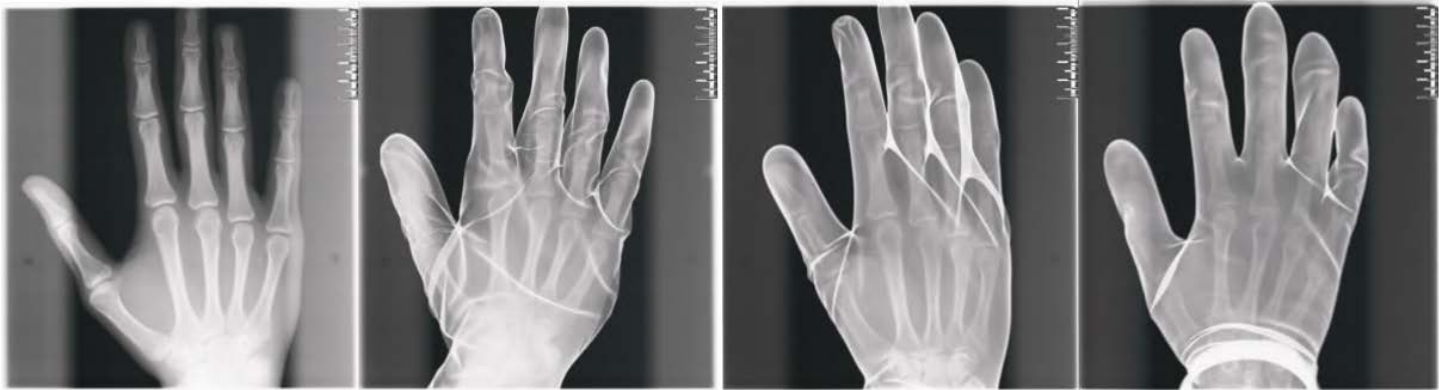
XP-1\* Light Type : Gives, maximum touch sense, it is self-lubricated (ease wearing), used more at angiography urology, hematology , gastroenterology, light-simple surgical operations.

XP-2\*\* Medium Type : Medium thickness, self-lubricated (ease wearing), used more at urology, oncology centers, dentistry, surgery and cardiology.

XP-3\*\*\* Heavy Type : It has thicker materials and proper for traumatology and nuclear field.

Size	XP-1* Light	XP-2** Medium	XP-3*** Heavy
6 ½	750	756	762
7	751	757	763
7 ½	752	758	764
8	753	759	765
8 ½	754	760	766
9	755	761	767

Absorbtion and Screening Percentage	60 Kv	80 Kv	100 Kv
XP-1* Light	36%	31%	27%
XP-2** Medium	61%	54%	47%
XP-3*** Heavy	72%	65%	59%



Without Gloves 1 star 2 star 3 star

Lead Gloves

Aktif X-Ray lead gloves are flexible, homogenous and gives maximum safety to operator with 0,50mm Pb lead value.

Model	Pb	Article
Leather Gloves	0,50mm	772



Protective Curtains

As Aktif X-Ray we produce radiation protective lead curtains which provides ease for apply and usage.

Lead  
LightWeight Lead / LeadFree(optional)

Height Adjustable Mobile Protective Shield

This 60x60 cm sized, 0,50 mm Pb panel can be adjusted as 95x160 cm height. With 60 cm diameter aluminum caster system, it provides flexibility and can be immobilized with the 2 brake casters easily. We can produce it in any size and protective value on demand.



Curtains for Tables (Saddle Type)

These curtains can be produced as applicable for all types of tables and with the overlapping panel, it provides ease for usage while opening and closing the curtain. It is suitable for use in surgeries with C arm X-ray units and can be produced in any demanded size.

Lower Body Shields For Operation Tables

It can be mounted to operation table's accessories rail and protecting operator against secondary radiation coming through under secondary table. Table mounted model is designed to protect doctor and other stuff against to radiation during operation. Protective lead material's size is 116 cm x 76 cm , lead equivalent is 0,50mm Pb. Metal part is not magnetic. It can be mounted to both sides of operation table. It can move to front-back direction with ease on table accessory rail giving maximum comfort and safety.



Technical Features

Lead Equivalent: 0,50 mm Pb flexible curtain  
Dimensions: Length:116 cm xHeight:76 cm  
Color: Grey  
Metal Part: Aluminum

Article	Pb
901	0,25 mm
725	0,35 mm
713	0,50mm





Leaded Doors and Protective Barriers

Our company produces protective lead doors and protective barriers in any demanded size and provides the mounting service. Our protective barriers produced in high quality and with its featured caster system it provides high mobility compared to its equivalent products. And as our doors are rabbeted, they provide maximum protection against x-ray compared to its equivalent products. Standard color of our doors and doorframes is white/beige. We can also produce sliding doors on demand. Doors and protective barriers can be produced as double leaf and triple leaf. Please demand proposal by notifying the sizes of protective barriers and sizes you need.

Standard Protective Barrier

Dimensions of standard lead protective barrier is 100cm x 200 cm. Strong caster system and eye height level lead glass give relax movement capability and wide view perspective to operator.

Standard Protective Barrier With Large Glass

Although the technical characteristics and sizes same as the standard protective barrier with a larger glass offers the user a wider viewing angle.

Model	Size	Pb	Glass Size	Article
Standard Protective Barrier	100x200 cm	2,0 mm	20 x 20 cm	720
Standard Protective Barrier With Large Glass	100x200 cm	2,0 mm	50 x 80 cm	721

Lead Doors

Aktif X-Ray produces custom made leaded doors according to customer needs and gives installation service. Single, double and sliding doorset options are available. Leaded jambs grant a continuous shielding together with wall panels. All doorsets are equipped with high quality handles, heavy duty hinges/sliding system and perfect workmanship. Please send technical drawing with dimensions and protection level when you ask quotation.

Model	Size	Pb	Article
Standard Lead Door	100x200 cm	2,0 mm	716



Standard Paravane



Standard Paravane with Large Glass



LEAD GLASS

Our lead glasses provide high quality transparency and protection. With high amounts of lead and barium substances it provides optimum protection between 100-300 Kv. We produce our lead glasses as 2600 mm x 1300 mm sized polished plates. At the same time, we can cut it in smaller sizes on demand. They are applicable for lamination so, they can be laminated with PV3 (polyvinyl butyral) as double layered. Our lead glasses are audited tightly and they have the certificate of conformity ISO 14001 and also quality standards.

- Benefits Of Med - X

- Protection to 100-300 Kv devices radiation
- Optimum Protection with high lead and barium
- Transparent
- Convenient For Lamination
- Big Sizes
- Up to 2600 mm x 1300 mm standard products .

- Area Of Usage

- Radiography and CT rooms
- Medical Diagnostic Screen
- Protective Window in Laboratories
- Lens of Protective Glasses
- Airport Safety Screens.



Lead Glass



Thickness	Minimum Lead Equivalence (mm) for Stated X-Ray Tube Voltage					
	100kV	110kV	150kV	200kV	250kV	300kV
mm						
5,0-5,5 mm	1,7	1,6	1,5	1,3	1,3	1,3
7,0-8,5 mm	2,3	2,3	2,1	1,8	1,8	1,8
8,5- 10,0 mm	2,8	2,8	2,5	2,2	2,2	2,2
10,0-12,0 mm	3,3	3,2	2,9	2,5	2,5	2,5
11,0-13,0 mm	3,7	3,5	3,3	2,8	2,8	2,9
14,0-16,0 mm	N/A	4,7	4,1	3,5	3,6	3,7
16,0-18,0 mm	N/A	N/A	4,6	4	4,1	4,3
	*N/A : Not measured value					

## Protective Shields and Ceiling Mounted Systems

### Overhead Suspended Shield Model 354

This ergonomically designed shield can be moved partially over a patient and adjusted to provide maximum protection to the practitioner's eyes and upper body.

A central joint enables the lead acrylic window to turn and tilt until the optimum position is achieved.

- 0,50 mm lead acrylic with ball & socket joint can be positioned at any angle
- Shield can be placed over the patient for maximum protection
- The decision to locate the cut-out on the left or right can be made during installation, according to its intended use
- A version without the cut-out can be rotated horizontally if a wider shield is required
- Optional flexible 0,50 mm Pb curtains can be factory fitted to either version
- Other sizes available

All of the above shields can be mounted on a ceiling column or on a ceiling track with or without a Surgical Lamp. Or, alternatively, on its own wall mounted.



### Overhead Suspended Shield Model 351

The lead acrylic window of this shield is placed partially over the patient for effective protection against scatter radiation to the eyes and upper body. The wide format provides a safe zone for the practitioner and for personnel assisting close by.

The window can be turned to the most convenient angle or removed immediately for emergency access to the patient.

- 60x80 cm 0,50 mm lead acrylic window ensures protection against scatter radiation to the eyes & upper body
- Wide configuration provides a safe zone for user and personnel close by
- Contoured shield can be placed over the patient for maximum protection
- A version without the cut-out is available
- Optional 0,50 mm Pb flexible curtain can be fitted to either version for additional protection

All of the above shields can be mounted on a ceiling column or on a ceiling track with or without a Surgical Lamp. Or, alternatively, on its own wall mounted.



### Overhead Suspended Shield Model 350

These compact shields ensure maximum dose reduction to the eyes by the use of high-quality lead glass, with a lead equivalency of 2,00 mm Pb.

The windows can turn horizontally & vertically until the ideal angle is obtained for protection. This also helps eliminate reflections from lights or other equipment and ensures a clear view of the patient.

- Easy to move overhead shield
- Maximum protection for eyes & thyroid
- Available as 30x40 cm or 40x50 cm
- 2,00 mm Pb lead window with 0,50 mm Pb curtain @150 kV
- Different curtain lengths available



### Ceiling Track Mounted Shields & Surgical Lamps

A ceiling track provides maximum positioning flexibility, enabling the shield and/or lamp to be moved easily into the working area. When not in use they can be parked up to 5.5 metres away.

- Ceiling tracks are 2,5 metres long, compact and exceptionally easy to install & use. They can be positioned at any angle across the ceiling.
- Ceiling tracks are useful when static mounts prevent the movement of other equipment.
- The smooth running track carriage will accommodate one or two shields or surgical lamps or a combination of both.
- An additional carriage can be fitted if independent movement of a lamp and shields is required.



## Lead Shielding

Radiation safety rules and regulation requires wall of the rooms (Radiography, tomography, computer aided tomography, radiotherapy, X-Ray) to be leaded isolation. Our company produces also windows and doors of these rooms beside their walls. Please send your inquiry with technical drawing of your room.

### What we do;

By our team having 25 years experience;

Shielding for radiography and tomography rooms according to TAEK and World standards.

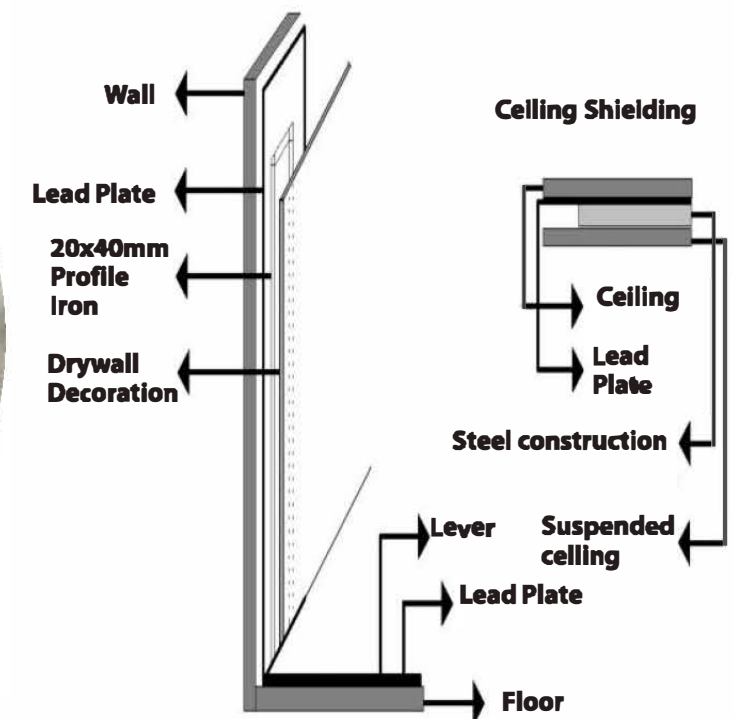
Design and shielding for dental panoramic radiography rooms.

Fully customized leaded doors in different models and sizes

Fully customized protective barrier (fixed, mobile and any size).



### Wall and Floor Shielding



## WINDOWS – FLOORS – CEILINGS SHIELDINGS

### X-Ray Windows Shielding:

X-Ray windows shielding system is made by sliding shutters, made of strong wood box panels with interposed lead, calibrated and brushed.

### X-Ray Floor Shielding With Lead Sheets:

For shielding are used lead sheets protected by tarred felt paper. The sheets overflow near the junctions and wall edges to avoid escape radiations outgoing.

### X-Ray Ceiling Shielding:

Ceiling shielding is made using X-Ray panels with the same features of wall-panels. Panels fixing is made of wood structure (minimum section cm 6x6) fixed on ceiling by supports.



## Röntgen Accessories

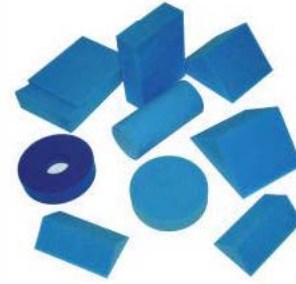
### Positioning Aids

We have positioning aids set which are used during radiological examination and therapies. The set includes 9 parts; 2 circular, 1 cylindrical, 1 rectangle, 4 triangle, 1 pyrisma.

Definition	Article
Standard Kit with Bag (uncoated)	614013
Standard Kit with Bag	614113
CT shots model	614118
New Polyeten Kit with Bag	614213
Multipurpose Pad	666666



Positioning Aids



### Patient Table Pad

It can be produced in customized size upon request.  
Width : 60 cm  
Height : 200 cm



Patient Table Pad

### Lead Letters and Warning Signs

We provide a variety of lead letters and numbers. Warning signs are mandatory to use in radiation exposed areas.



Lead Letter and Markers



İÇERİ GİRMEYİNİZ  
DO NOT ENTER

### Computerized Tomography Grayshield Eye and Thyroid Protectors

Grayshield eye and thyroid protectors (1,4 mm thickness) provides 0,125 mm Pb lead equivalent protection.

#### Grayshield Thyroid Protectors

Grayshield Thyroid Protectors are designed to fit exactly on adam's apple and produced to protect thyroids, which are sensitive to x-rays, during tomography and other radiographies.



#### Grayshield Eye Protectors

Grayshield Eye Protectors are designed to cover front and side of the eyes and they reduce the x-ray exposure significantly during tomography and radiographies. It is applicable for any face shape by its hypoallergenic adhesive tape.

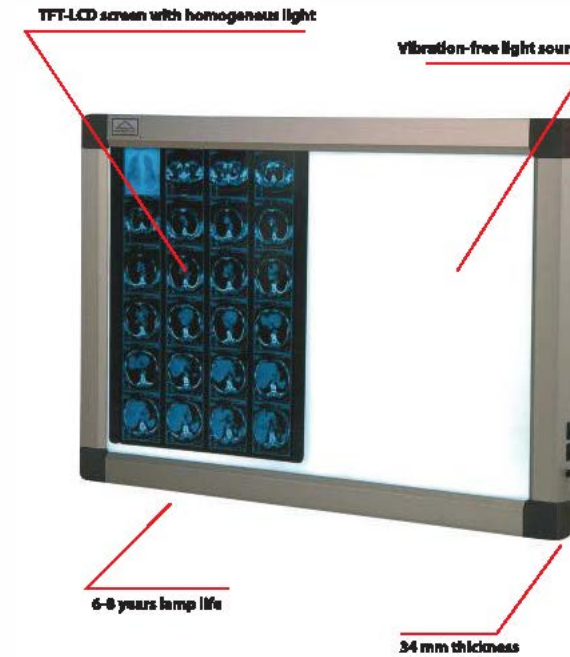


**As Grayshield Thyroid and Eye Protectors are for single use only, they are prevent contagious diseases. They can be considered as domestic waste because they are composed of barium sulfate.**

## Negatoscopes

### Technical Specifications

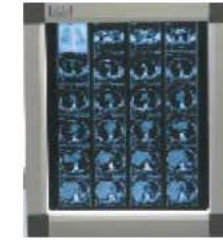
- 34 mm thickness
- TFT-LCD screen with homogeneous light
- Special light characteristic for röntgen, mammography, MR and CT films
- Using desired panels
- Special light colors and intensity
- 6-8 years lamp life
- Minimum eye fatigue due to vibration-free light source
- Energy saver lamps (CCFL/LED)
- Use option DC12V or AC 220 V
- Stylish design
- Optional specialized production
- Can be mounted horizontally or vertically
- Can be used on table with back stand
- 2 year warranty



### STANDARD MODELS



**Panoramic Negatoscope**  
(25x40 cm) Article: 643006



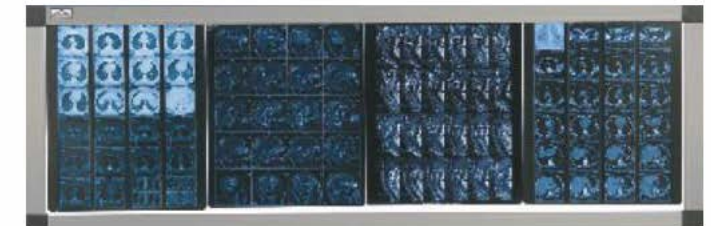
**Single Negatoscope**  
(44,7x51,4 cm) Article: 643100



**Double Negatoscope**  
(80,4x51,4 cm) Article: 643101



**Triple Negatoscope**  
(116,4x51,4 cm) Article: 643102



**Quadruple Negatoscope**  
(151,6x51,4 cm) Article: 643103

### Vertical Negatoscope for Spinal Cord shootings

IRIS Light Type	IRIS Circle	Bright Power	Article
Standard	5-100mm	70.000 lux	643170
Model - An	5-100mm	70.000 lux	643171

NOTE: Please ask information about mammography negatoscope.



Colon Set

Instruction For Use

- 1. Join the application tip and enema bag,
- 2. Close all clamps,
- 3. Pour prepared solution to enema bag,
- 4. Close and tighten the lid of enema bag,
- 5. Before apply to patient, open clamp on application hose in order to let solution to reach to tip,
- 6. Lubricate the tip using Vaseline,
- 7. Locate the tip slightly inside rectum,
- 8. Squeeze the pump once and inflate the silicon balloon by opening clamp.

A) SLIMLINE – 3 WAYS DOUBLE CONTRAST COLON TIP

- 1. 18 mm diameter flexible tip and air canal with clamp for dispensing the radioopaque material to body,
- 2. Silicon balloon and clipped air entry part which keeps tip stuck to body during application,
- 3. Air entry with clamp for air radiographic shots.

B) SLIMLINE – 1 WAYS DOUBLE CONTRAST COLON TIP

- 1. 18 mm diameter flexible tip and air canal with clamp for dispensing the radioopaque material to body,
- 2. Silicon balloon and clipped air entry part which keeps tip stuck to body during application,
- 3. Air entry with clamp for air radiographic shots.

C) ENEMABAG

- 1. Designed specially in order to increase speed of solution flow,
- 2. It has scale, It can contain 3000 ml solution in fully capacity,
- 3. Screwed and airy lid,
- 4. Clamper Extension Hose.

CONSIDERE POINTS

- 1. Do not use vinyl or latex containing gloves,
- 2. Take care of not to make pressure to vagus nerve,
- 3. Do not make fast or deeper the application,
- 4. Squeeze the pump only once in order to inflate approx. 100cc air, do not give more, it can explode and harm patient.

THIS PRODUCT IS APPLICABLE FOR DOUBLE OR SINGLE CONTRAST USAGE. IT IF SINGLE USE. PUMP IS NOT FOR SINGLE USE SO, THE SET DOES NOT CONTAIN PUMP. IT CAN BE PROVIDED ON DEMAND. THE COLON TUBE IS PRODUCED WITH ENVIRONMENT FRIENDLY PLASTIC, PLEASE DISPOSE IT PROPERLY AFTER USAGE.

DO NOT USE IN THE FOLLOWING SITUATIONS:

- 1. Do not use on patients have colostomy.
- 2. Pump;
- a) In rectal anastomosis that don't go in deep,
- b) In proctitis, inflammatory or neoplastic rectum diseases,
- c) In first rectal surgery attempts.



Model	Code
Double Contrast Colon Tube	613001
Single Contrast Colon Tube	613002
Medium Bag	613008
Pump	613004

A FEW OF OUR REFERENCES







**X-RAY DOES NOT JOKE!**

**RADIATION PROTECTION  
EQUIPMENTS**

**AKTIF DIS TICARET**  
**Altunizade Mah. Kusbakisi Cad.**  
**Asuroglu Sit. D Blok No:25 D:1/2**  
**Üsküdar / Istanbul**  
**Tel.: +90 216 474 45 48 - 474 51 91**  
**Fax: +90 216 474 48 19**



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