

# X-Ray Protection and Accessories for User and Patient

# X-ray

**DR. GOOS**  
**SUPREMA**



**Dr. Goos-Suprema GmbH**  
Production of X-Ray Protection

D-69014 Heidelberg  
P.O. Box 10 24 07  
Phone: 0049 (0) 6221-33 71 79  
Fax: 0049 (0) 6221-37 21 66  
e-Mail: [info@drgoos-suprema.de](mailto:info@drgoos-suprema.de)  
Homepage: [www.drgoos-suprema.de](http://www.drgoos-suprema.de)



## Index / Information

|                 |              |
|-----------------|--------------|
|                 | <b>2 - 5</b> |
| Certifications  | 3            |
| Lead Materials  | 4            |
| Cover Materials | 5            |

## X-ray Protection for Users

**6 - 25**

### Frontprotection

**6 - 11**

|                 |         |
|-----------------|---------|
| Front Apron F   | 6 - 7   |
| Front Apron CMF | 8       |
| Front Apron BV  | 9       |
| Front Apron C   | 10 - 11 |

### Wrap-Around Protection

**12 - 21**

|                                      |         |
|--------------------------------------|---------|
| Wrap Around Apron Mantle RM          | 12 - 13 |
| Wrap Around Double Apron RD          | 14 - 15 |
| Wrap Around Skirt and Vest Duplex RW | 16 - 17 |
| Thyroid Collar / Hygiene Collar      | 18      |
| Gloves / Sleeves                     | 19      |
| Visier / Mask                        | 20      |
| Goggles / Glasses                    | 20 - 21 |

## X-ray Protection for Patients

**22 - 27**

|   |    |
|---|----|
| Gonad Half Apron                            | 22 |
| Gonad Skirt                                 | 23 |
| Ovary-shield for female Patients            | 24 |
| T-shield Gonad Protection for male Patients | 25 |
| Aprons for children                         | 26 |
| Spine-belt / Cleaner                        | 27 |

## Accessories for X-ray Protection

**28 - 42**

|                          |         |
|--------------------------|---------|
| Mobile Storage Rack      | 28      |
| Swivelling Wall Rack     | 29      |
| Wall Rack                | 30 - 31 |
| Cover for cassettes      | 32      |
| Winding / Lead-sheeting  | 33      |
| Protective Curtain       | 34      |
| CT-Protection            | 35      |
| Patient positioning Aids | 36 - 38 |
| Patient Foames           | 39      |
| Film markers             | 40      |
| Cape / Breast Protection | 41      |
| Compensating Filter      | 42      |



With Dr. Goos-Suprema, you make a good choice.  
X-ray protection and X-ray accessories for users and patients.

Our over 60-year tradition is marked by continuous renewal and development. Trained and experienced staff ensure a clean, professional workmanship and quality.

## X-ray protection you can trust !



- **user protection**  
according personal protective equipment PPE 89 / 686/EEC (CE/PSA), construction pattern certification audited by auditor testing centre number CE 0123
- **patient protection**  
com. MPG 93/42/EWG CE/MPG
- **testing standards of the lead-materials**  
IEC 61331-1:2014
- **standard of the production of protective clothing**  
IEC 61331-3:2014
- in addition are we as manufacturer according to DIN EN ISO 9001:2015, as well as DIN EN ISO 13485:2016 tested and therefore our products of constant quality control
- are subject to article-numbers and prices, as well as the general terms and conditions, see our current price list





**Lead-Materials**

**SupraNorm  
(Standard Lead Rubber Material)**



Standard material of lead rubber SupraNorm is a pure lead material on natural rubber base. The weight of SupraNorm is higher than at the light lead rubber material, reached a constant radiation IEC 61331-1:2014 see table below.

**SupraLight  
(Light Lead Rubber Material)**



This light lead rubber material allows for constant radiation safety to reduce the weight of X-ray protection clothing up to 15% compared to the standard lead rubber material. This SupraLight version is ideal for jobs with higher time of wearing X-ray protective clothing.

With this SupraLight X-ray protective aprons is therefore more flexible and carefree to work. The daily routine is not the 'feat of strength', but the user save strength for the essence of this work: the examination of the patient.

In the manufacture of lightweight lead-rubber material for X-ray protective aprons we thought of course also on the environment. It is made from natural rubber. The light lead rubber material is homogeneous and uniformly with radiation-absorbing fillers (composite). The perfectly uniform distribution of this attenuation in the production guarantee the radiation safety of this material in accordance with IEC 61331-1:2014 see table below.

Our X-ray protection clothing is offered in the above materials and course meets the requirements of IEC 61331-1:2014 and corresponds to the voltage ranges listed in the standards and protection classes:

**Voltage ranges com. IEC 61331-1:2014**

|                               |              |             |
|-------------------------------|--------------|-------------|
| Standard lead rubber material | (SupraNorm)  | 50 - 150 kV |
| Light lead rubber material    | (SupraLight) | 50 - 120 kV |

**Protection classes com. IEC 61331-1:2014**

|                    |            |
|--------------------|------------|
| protection class 1 | 0.25 mm Pb |
| protection class 2 | 0.35 mm Pb |
| protection class 3 | 0.50 mm Pb |
| protection class 4 | 1.00 mm Pb |

X-ray protective clothing for the user, who has a lead equal value higher than 0.35 mm Pb, is unsuitable for the longer wearing time (recommendation our testing laboratory).

**Medium protection of our protection materials made of lead rubber available in SupraNorm and SupraLight**

| Beam Quality           | 60 kV                               | 80 kV      | 100 kV      | 120 kV      |
|------------------------|-------------------------------------|------------|-------------|-------------|
| <b>Lead Equivalent</b> | <b>Attenuation % / Protection %</b> |            |             |             |
| 0.25 mm Pb             | 1.60 / 98.4                         | 5.0 / 95.0 | 10.0 / 90.0 | 13.0 / 87.0 |
| 0.35 mm Pb             | 0.07 / 99.3                         | 3.0 / 97.0 | 5.5 / 94.5  | 9.0 / 91.0  |
| 0.50 mm Pb             | 0.05 / 99.5                         | 1.0 / 99.0 | 3.0 / 97.0  | 5.0 / 95.0  |



### Cover-Materials

We offer cover materials for our X-ray protective clothing different materials in various colours. The Setting of X-ray protection clothing is durable, dark blue polyesterband and sturdy thread. A special cleaning and disinfecting agent 'SupraPflege' (see page 27) is available for both materials.

Creative colours that colourfully decorate the routine in the work include modern cuts.  
Colours can be a positive sentiment.











## SupraTex

SupraTex is a robust, flexible and easy-care exterior of our X-ray protective clothing. Modern cover material to clean comfortable cuts to light this material can be in addition to current fashion colours.

- |   |                          |   |                     |
|---|--------------------------|---|---------------------|
|  | 21. grey                 |  | 27. pink            |
|  | 22. royalblue (Standard) |  | 28. bordeaux        |
|  | 23. navyblue             |  | 29. purple          |
|  | 24. scarletred           |  | 30. jadegreen       |
|  | 25. yellow               |  | 32. orange          |
|  | 26. petrolgreen          |  | 33. children design |

## SupraSoft

Particularly well suited for the surgical area. Soft easy care soft material.

- |   |                          |
|---|--------------------------|
|  | 40. atollblue (Standard) |
|  | 41. quellblue            |
|  | 42. jupiterred           |
|  | 43. mangrovengreen       |
|  | 44. kometbeige           |
|  | 45. polarsilver          |
|  | 46. lagunengreen         |
|  | 47. terraorange          |
|  | 48. malvepurple          |
|  | 49. sunyellow            |

#### Ask for your individual apron !

##### Standard Order Details

| Height    | Length of apron |
|-----------|-----------------|
| 145 - 155 | 90 cm           |
| 155 - 165 | 100 cm          |
| 165 - 175 | 110 cm          |
| 175 - 185 | 120 cm          |
| 185 - 195 | 130 cm          |

#### Please state in your order:

- Type
- Cover
- Size (length/width)
- Lead-Equivalent
- Material
- Colour

Colour and type-changes reserved !

# X-ray

## Front Apron F

The Front Apron is our standard model at the front aprons with back wing. Form, loose cut and practical Velcro, which is closed at the front, leading to a good fit. This model is as tailored, the front fascia adapts itself to the body through the Stretchfasteners and comfortable wearing.



## Order Details

|                          |  |
|--------------------------|--|
| <b>Lead Material</b>     | SupraNorm, SupraLight  |
| <b>Lead Equivalent</b>   | Front: 0,25 mm Pb, 0,35 mm Pb or 0,50 mm Pb<br>Back: General 0,25 mm Pb                                |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Available Colours: Page 5 |
| <b>Setting</b>           | Around Polyesterband   |
| <b>Sizes</b>             | See below on the chart   |
| <b>Lengths</b>           | 90 cm, 100 cm, 110 cm, 120 cm, 130 cm  |
| <b>Closure</b>           | Standard: Velcro stretch system crosswise closure on hips<br>On demand: Clip fastener                  |
| <b>Breast Pocket</b>     | Inclusive  |
| <b>Embroidery</b>        | Available on demand  |
| <b>Storage</b>           | Wooden hanger inclusive. Other storage see page 28 - 31  |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on apron  |

# X-ray



| Size    | Hip   | Shoulder |
|---------|-------|----------|
| X-Small | 50 cm | 36 cm    |
| Small   | 60 cm | 40 cm    |
| Medium  | 60 cm | 48 cm    |
| Large   | 70 cm | 53 cm    |
| X-Large | 75 cm | 53 cm    |



Clip fastener

# X-ray

## Front Apron CMF

Front Apron F and Surgical Apron C we have developed for apply E.g. surgical, radiology, plaster room, in several areas:

- as a front apron with proven Velcro with Stretchbelt
- as surgical apron to wear under the mantle of the operation and to take, if necessary, in the guise of OP.

By opening the side and top closures fitted with Velcro, slide out the CMF apron under the sterile surgical coat.

The fasteners on the shoulders are another advantage of CMF apron. They allow an individually adjustable neck width.



## Order Details

|                          |   |  |
|--------------------------|---|--|
| <b>Lead Material</b>     | SupraNorm, SupraLight   |  |
| <b>Lead Equivalent</b>   | Front:  | 0,25 mm Pb, 0,35 mm Pb or 0,50 mm Pb   |
|                          | Back:   | General 0,25 mm Pb   |
| <b>Cover and Colours</b> | Standard:   | SupraTex royalblue   |
|                          | On demand:  | SupraSoft atollblue (Standard)   |
|                          | Available Colours:  | Page 5   |
| <b>Setting</b>           | Around Polyesterband  |  |
| <b>Sizes</b>             | See below on the chart  |  |
| <b>Lengths</b>           | 90 cm, 100 cm, 110 cm, 120 cm, 130 cm                           |  |
| <b>Closure</b>           | Standard:   | Velcro stretch system crosswise closure on hips and special velcro closure on shoulder |
| <b>Breast Pocket</b>     | Inclusive   |  |
| <b>Embroidery</b>        | Available on demand   |  |
| <b>Storage</b>           | Wooden hanger inclusive. Other storage see page 28 - 31         |  |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on apron |  |

| Size   | Hip   | Shoulder |
|--------|-------|----------|
| Small  | 60 cm | 40 cm    |
| Medium | 60 cm | 48 cm    |
| Large  | 70 cm | 53 cm    |

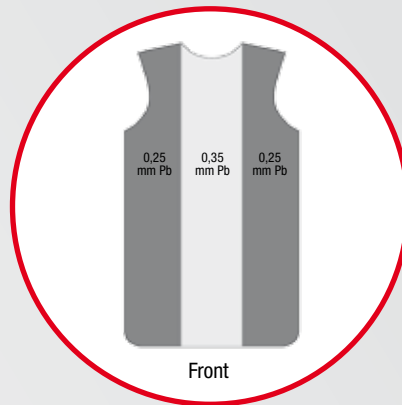


# X-ray

## Front Apron BV Image Intensifier Type

Preferred to work on the image intensifier, at the surgeons, orthopedists, plaster room and urologists.

Front type lightest, especially designed arrangement of lead rubber (see picture).



## Order Details

|                          |   |   |
|--------------------------|---|---|
| <b>Lead Material</b>     | SupraNorm, SupraLight   |   |
| <b>Lead Equivalent</b>   | Front:  | 0,25 mm Pb, Median Strip: 0,35 mm Pb            |
|                          | Back:   | General 0,25 mm Pb                              |
| <b>Cover and Colours</b> | Standard:   | SupraTex royalblue                              |
|                          | On demand:  | SupraSoft atollblue (Standard)                  |
|                          | Available Colours: Page 5                                       |   |
| <b>Setting</b>           | Around Polyesterband  |   |
| <b>Sizes</b>             | See below on the chart  |   |
| <b>Lengths</b>           | 90 cm, 100 cm, 110 cm, 120 cm, 130 cm                           |   |
| <b>Closure</b>           | Standard:   | Velcro stretch system crosswise closure on hips |
|                          | On demand:  | Clip fastener                                   |
| <b>Breast Pocket</b>     | Without   |   |
| <b>Embroidery</b>        | Available on demand   |   |
| <b>Storage</b>           | Wooden hanger inclusive. Other storage see page 28 - 31         |   |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on apron |   |

| Size   | Hip   | Shoulder |
|--------|-------|----------|
| Small  | 60 cm | 40 cm    |
| Medium | 60 cm | 48 cm    |
| Large  | 70 cm | 53 cm    |

# X-ray

## Front Apron C Surgical Special Type

Specially designed for use under the operation coat.  
After opening the lockable front fasteners, slide out the apron under the sterile operation coat.



Back side



## Order Details

|                          |  |
|--------------------------|--|
| <b>Lead Material</b>     | SupraNorm, SupraLight  |
| <b>Lead Equivalent</b>   | Front: 0,25 mm Pb, 0,35 mm Pb or 0,50 mm Pb<br>Back: General 0,25 mm Pb                                |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Available Colours: Page 5 |
| <b>Setting</b>           | Around Polyesterband   |
| <b>Sizes</b>             | See below on the chart   |
| <b>Lengths</b>           | 90 cm, 100 cm, 110 cm, 120 cm, 130 cm  |
| <b>Closure</b>           | Only Velcro system crosswise closure on hips   |
| <b>Breast Pocket</b>     | Without  |
| <b>Embroidery</b>        | Available on demand  |
| <b>Storage</b>           | Wooden hanger inclusive.   |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on apron  |

# X-ray



| Size   | Hip   | Shoulder |
|--------|-------|----------|
| Medium | 60 cm | 48 cm    |
| Large  | 75 cm | 53 cm    |

# X-ray

## Wrap Around Apron Mantle RM

The Wrap around Apron Mantle offers maximum wrap-around protection. Particularly suitable for special studies such as cardiology.

With shoulder pads and stretch belt to relieve weight.

Every front page has the specified lead equivalent (0.35 resp. 0.50 mm Pb), so that the closure have double lead equivalent.

## Order Details

|                          |  |
|--------------------------|--|
| <b>Lead Material</b>     | SupraNorm, SupraLight  |
| <b>Lead Equivalent</b>   | Front: 0,35 mm Pb or 0,50 mm Pb<br>Back: General 0,25 mm Pb  |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Available Colours: Page 5 |
| <b>Setting</b>           | Around Polyesterband   |
| <b>Sizes</b>             | See below on the chart   |
| <b>Lengths</b>           | 90 cm, 100 cm, 110 cm, 120 cm, 130 cm  |
| <b>Closure</b>           | 3 horizontal and 1 vertical Velcro-closure guarantee optimal wearing comfort                           |
| <b>Belt</b>              | Inclusive  |
| <b>Breast Pocket</b>     | Inclusive  |
| <b>Shoulder Pad</b>      | Inclusive  |
| <b>Embroidery</b>        | Available on demand  |
| <b>Storage</b>           | Wooden hanger inclusive. Other storage see page 28 - 31  |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on apron  |



# X-ray



| Size    | Girth            |
|---------|------------------|
| Small   | ca. 100 - 110 cm |
| Medium  | ca. 111 - 120 cm |
| Large   | ca. 121 - 130 cm |
| X-Large | ca. 131 - 140 cm |

# X-ray

## Wrap Around Double-Apron RD

This practical Wrap Around Double Apron is through the good cut for special applications: suitable for example, cardiology, endoscopy.

The tightening is carried out like a Mantle. Initially, the two parts of velcro in the right inside are connected and then the apron side and shoulder closed. A further weight reduction causes a stretch belt on the hip.



Overlapping

## Order Details

|                          |  |
|--------------------------|--|
| <b>Lead Material</b>     | SupraNorm, SupraLight  |
| <b>Lead Equivalent</b>   | Front: 0,35 mm Pb or 0,50 mm Pb through overlapping in front<br>Back: General 0,25 mm Pb               |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Available Colours: Page 5 |
| <b>Setting</b>           | Around Polyesterband   |
| <b>Sizes</b>             | See below on the chart   |
| <b>Lengths</b>           | 90 cm, 100 cm, 110 cm, 120 cm, 130 cm  |
| <b>Closure</b>           | 3 horizontal and 1 vertical Velcro-closure inclusive additional belt                                   |
| <b>Belt</b>              | Inclusive  |
| <b>Breast Pocket</b>     | Inclusive  |
| <b>Shoulder Pad</b>      | Inclusive  |
| <b>Embroidery</b>        | Available on demand  |
| <b>Storage</b>           | Wooden hanger inclusive. Other storage see page 28 - 31  |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on apron  |



Shoulder closure

| Size    | Girth      |
|---------|------------|
| Small   | ca. 107 cm |
| Medium  | ca. 117 cm |
| Large   | ca. 127 cm |
| X-Large | ca. 137 cm |

# X-ray

## Wrap Around Skirt and Vest Duplex RW

A greater mobility and even weight distribution is achieved by the combination of Skirt and Vest since spread the weight to shoulder and hip. First the Skirt, then tighten the Vest.



## Order Details

|                          |  |
|--------------------------|--|
| <b>Lead Material</b>     | SupraNorm, SupraLight  |
| <b>Lead Equivalent</b>   | Front: 0,35 mm Pb or 0,50 mm Pb through overlapping in front<br>Back: Genel 0,25 mm Pb                 |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Available Colours: Page 5 |
| <b>Setting</b>           | Around Polyesterband   |
| <b>Sizes</b>             | See below on the chart   |
| <b>Lengths</b>           | Vest: Genel 60 cm<br>Skirt: 55 cm, 60 cm, 65 cm, 70 cm, 75 cm  |
| <b>Closure</b>           | Vest: 2 horizontal and 1 vertical Velcro-closure<br>Skirt: Vecro-closure inclusive additional belt     |
| <b>Breast Pocket</b>     | Inclusive  |
| <b>Shoulder Pad</b>      | Inclusive  |
| <b>Embroidery</b>        | Available on demand  |
| <b>Storage</b>           | Wooden hanger inclusive. Other storage see page 28 - 31  |
| <b>Notice</b>            | Thyroid Collars with push-buttons available for fixing on vest   |





**When the two-piece skirt and vest can be ordered separately individually depending on the body size and character**

**Duplex Skirt**

To close with Velcro and additional stretch belt on the hip.  
 With loops for storage. Double-layered structure (fig. dark blue) ensures that a variable waist circumference in addition 10 cm and therefore optimum protection guaranteed.



| Size    | Taille-girth Skirt       |
|---------|--------------------------|
| Small   | ca. 72 cm (max. 82 cm)   |
| Medium  | ca. 80 cm (max. 90 cm)   |
| Large   | ca. 95 cm (max. 105 cm)  |
| X-Large | ca. 105 cm (max. 115 cm) |

**Duplex Vest**

Vest-duplex with overlap in the front area, therefore double lead equivalent on the front page.  
 Additional lock on the shoulder to close.  
 When tightening, first connect the two parts of velcro in the right inside and then the vest side and shoulder close.



| Size    | Breast-girth Vest |
|---------|-------------------|
| X-Small | ca. 97 cm         |
| Small   | ca. 107 cm        |
| Medium  | ca. 117 cm        |
| Large   | ca. 127 cm        |
| X-Large | ca. 137 cm        |

# X-ray

## Thyroid-Collar SD

Thyroid collar is used in the fields, where the user longer time is exposed to X-rays such as: cardiology, angiography, etc.

### Thyroid Collar one piece

to protect of the Thyroid and neck.  
Neck size: 40-52 cm



### Thyroid Collar small

to protect of the thyroid gland and the sternum, in addition to the X-ray protective apron.  
Neck size: 38-45 cm. Push button on the apron possible (see picture below).



### Thyroid Collar standard

for the protection of the thyroid gland and sternum, in addition to the X-ray protective apron.  
Neck size: 40-52 cm.  
Push button on the apron possible.



### Hygiene-collars

To use for all types of thyroid-collars !

### Fleece Hygiene-collars

For single use only - white colour. Set 20 pieces.

### Cotton Hygiene-collars

Easy to wash - blue colour.

## Order Details

### Lead material

SupraNorm, SupraLight

### Lead Equivalent

0,35 mm Pb or 0,50 mm Pb

### Cover and Colours

Standard: SupraTex royalblue  
On demand: SupraSoft atollblue (Standard)  
Other colours see page 5

### Setting

Around Polyesterband

### Sizes

See pictures above - Neck: ca. 4 cm

### Closure

Velcro closure

### Embroidery

Available on demand

### Notice

Thyroid Collars with push-buttons available for fixing on aprons

### X-Ray Gloves KLH

Standard version. With fingers.

#### Order Details

|                        |                              |
|------------------------|------------------------------|
| <b>Material</b>        | Lead-Vinyl                   |
| <b>Lead Equivalent</b> | Only available in 0,50 mm Pb |
| <b>Size</b>            | Medium                       |
| <b>Length</b>          | Ca. 40 cm                    |
| <b>Colour</b>          | Cover blue                   |
| <b>Storage</b>         | See page 30 - 31             |



### X-Ray Chirurgien-Gloves CH

Gloves with thumb safety model CH suitable for injection molding, to the palpation for surgical purposes, to keep infants with X-rays. Greatest flexibility by stitched version. With additional protection for the thumb. Suitable also for the veterinary field.

#### Order Details

|                         |  |
|-------------------------|--|
| <b>Material</b>         | SupraNorm  |
| <b>Lead Equivalent</b>  | 0,25 mm Pb, 0,35 mm Pb, 0,50 mm Pb                       |
| <b>Cover and Colour</b> | Standard: SupraTex royalblue<br>Other colours see page 5 |
| <b>Setting</b>          | Around Polyesterband                                     |
| <b>Size</b>             | Medium   |
| <b>Length</b>           | Ca. 40 cm  |
| <b>Storage</b>          | See page 30 - 31   |



### Radiation Surgical Gloves

For the surgical field according test method based on EN 61331-1 and EN 61267 (IEC 1267).

#### Application area:

Cardiology, coronary, angioplasty, angiocardiology

#### Characteristics:

Anatomical shape, increased tactile sensitivity and dexterity, lightly textured surface, high elongation. Disposable products, packaged in pairs sterile.

#### Order Details

|                        |  |
|------------------------|--|
| <b>Material</b>        | Natural rubberlatex, powder free, Lead free                            |
| <b>Lead Equivalent</b> | 0,045 mm Pb +/- 10 %   |
| <b>Sizes</b>           | X-Small = 7<br>Small = 7,5<br>Medium = 8<br>Large = 8,5<br>X-Large = 9 |



### Sleeves for X-ray aprons

Sleeves to attach to aprons (left or right) by means of push buttons. Also epaulettes on demand. Also sewn on demand possible.

#### Order Details

|                         |  |
|-------------------------|--|
| <b>Material</b>         | SupraNorm, SupraLight                                    |
| <b>Lead Equivalent</b>  | 0,25 mm Pb, 0,35 mm Pb, 0,50 mm Pb                       |
| <b>Cover and Colour</b> | Standard: SupraTex royalblue<br>Other colours see page 5 |
| <b>Setting</b>          | Around Polyesterband                                     |
| <b>Length</b>           | Ca. 25 cm  |



# X-ray

## X-Ray Goggles / Glasses RSB

The use of X-ray goggles / glasses significantly reduces the radiation exposure to the eye lenses. Already with a lead equivalent of 0.50 mm, 90 - 99 % of the scattered radiation at 80 kV are absorbed.

To protect of the eyes we offer, therefore models of the goggles / glasses with side protection. The X-ray goggles / glasses, with asterisk (\*) marked can be supplied also with ground glass (single thickness with anti-reflective coating).

Please specify when ordering dioptries and interpupillary distance. For order prescription necessary.

## X-Ray Visier / Mask

X-ray Mask radiation protection for the head with transparent drop mask made of lightweight lead acrylic glass. Easy to adjust adjustable and to any head size. Lead equivalent: 0,1 mm Pb.





**Type RSB 8/Pb (90 g)\***

X-ray glasses with plastic frames, additional side protection including fixing strap.

|                  |                   |            |
|------------------|-------------------|------------|
| Lead Equivalent: | Front protection: | 0,75 mm Pb |
|                  | Side protection:  | 0,50 mm Pb |
| Frame colour:    |                   | brown      |



**Type RSB 8A/Pb (85 g)\***

X-ray glasses with plastic frames, additional side protection incl. fixing strap.

|                  |                   |  |
|------------------|-------------------|--|
| Lead Equivalent: | Front protection: | 0,50 mm Pb                                     |
|                  | Side protection:  | 0,50 mm Pb                                     |
| Frame colours:   |                   | brown, blue<br>(colour changing under reserve) |



**Type RSB 12/Pb (86 g)\***

X-ray glasses with slightly convex frame incl. fixing strap.

|                  |                   |            |
|------------------|-------------------|------------|
| Lead Equivalent: | Front protection: | 0,75 mm Pb |
| Frame colour:    |                   | white      |



**Type RSB 10/Pb (76 g)**

X-ray glasses with curved frame incl. fixing strap.

|                  |                   |  |
|------------------|-------------------|--|
| Lead Equivalent: | Front protection: | 0,75 mm Pb                                     |
| Frame colours:   |                   | silver, red<br>(colour changing under reserve) |



**Type RSB 13/Pb (79 g)\***

X-ray glasses with plastic frame.

|                  |   |              |
|------------------|---|--------------|
|                  | Bracket side and adjustable in height incl. fixing strap. |              |
| Lead Equivalent: | Front protection:   | 0,75 mm Pb   |
| Frame colour:    |   | black / blue |



**Type RSB 11/Pb (87 g)**

X-ray glasses with plastic frame.

Fitover type incl. fixing strap.

|                  |                   |            |
|------------------|-------------------|------------|
| Lead Equivalent: | Front protection: | 0,75 mm Pb |
| Frame colour:    |                   | white      |



**Type RSB 14/Pb (78 g)\***

X-ray glasses with plastic frame incl. fixing strap.

|                  |                   |             |
|------------------|-------------------|-------------|
| Lead Equivalent: | Front protection: | 0,75 mm Pb  |
| Frame colour:    |                   | transparent |

# X-ray

## Gonad Half Apron

For patient protection in the Gonad-area.  
For X-rays of the thorax and upper abdomen area.

Available in different sizes and closure models:

- hip clamp grip (standard) for easy arrival
- with Velcro-closure (suitable for children)



Hip Clamp

| Size | Type               | L x W      |
|------|--------------------|------------|
| 0    | C 1 - for infants  | 20 x 25 cm |
| 1    | C 2 - for children | 30 x 30 cm |
| 2    | A 1 - for adults   | 37 x 45 cm |
| 3    | A 2 - oversize     | 45 x 50 cm |



## Order Details

|                          |   |
|--------------------------|---|
| <b>Lead Material</b>     | SupraNorm   |
| <b>Lead Equivalent</b>   | 0,50 mm Pb  |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours see page 5 |
| <b>Settings</b>          | Around Polyesterband  |
| <b>Sizes</b>             | See on the chart  |
| <b>Closure</b>           | Standard: Hip clamp<br>On demand: Velcro fastener   |
| <b>Storage</b>           | See page 31   |



## Gonad Skirt

The Gonad Skirt is an alternative to apron to protect the entire body wrap around.

The velcro strips on the front parts of the skirt, so that the skirt can create easy and variable.  
Fitted with loops for storage.



Velcro fastener width 10 cm

| Size    | Hip girth       | Length |
|---------|-----------------|--------|
| Small   | ca. 60 - 70 cm  | 35 cm  |
| Medium  | ca. 71 - 80 cm  | 40 cm  |
| Large   | ca. 81 - 90 cm  | 45 cm  |
| X-Large | ca. 91 - 100 cm | 45 cm  |



## Order Details

|                          |   |
|--------------------------|---|
| <b>Lead Material</b>     | SupraNorm   |
| <b>Lead Equivalent</b>   | 0,50 mm Pb  |
| <b>Cover and Colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours see page 5 |
| <b>Settings</b>          | Around Polyesterband  |
| <b>Sizes</b>             | See on the chart  |
| <b>Closure</b>           | Velcro fastener   |
| <b>Storage</b>           | Wooden hanger   |

# X-ray

## Ovary-Shield for female Patients Type OP

Application for X-ray examinations in the pelvic area, especially in hip joint, thigh and lumbar column recordings. Sealed on all sides in hygienic, easy to clean PVC coating. Special size for infants and five standard sizes with a distinct size and age.

Also higher lying ovaries are protected by the shaft-like sequel upward. Cleaning and disinfection with Supra-Pflege see page 27.



### Order Details

|                        |                  |
|------------------------|------------------|
| <b>Lead Material</b>   | SupraNorm        |
| <b>Lead Equivalent</b> | 1,0 mm Pb        |
| <b>Cover</b>           | welded in PVC    |
| <b>Sizes</b>           | See on the chart |

| Size   | Age                     | Colour     |
|--------|-------------------------|------------|
| OP S   | Special size for babies | jeans      |
| OP I   | below 4 years           | light blue |
| OP II  | from 4 - 8 years        | beige      |
| OP III | from 8 - 12 years       | green      |
| OP IV  | from 12 - 16 years      | grey       |
| OP V   | over 16 years           | silvergrey |
| Set    | complete set 5 Sizes    | OP I-V     |

## Ovary-shield for female patients with stretch-belt Type OP for standing

A set of ovaries protection is from the stretch hip belt (not to see on the X-ray) and 3 sizes of Ovary-shield.

The stretch hip belt is marked with a velcro point the Ovary-shield are attached to the belt. The belt should be closed with velcro on the back. Cleaning and disinfection with SupraPflege see page 27.



### Order Details

|                        |  |
|------------------------|--|
| <b>Lead Material</b>   | SupraNorm  |
| <b>Lead Equivalent</b> | 1,0 mm Pb  |
| <b>Cover</b>           | welded in PVC                                    |
| <b>Sizes</b>           | See on the chart.                                |
| <b>Closure</b>         | Stretch-Belt with Velcro (120 cm) to fix the OP. |

| Size                                       | Age               | Colour |
|--|-------------------|--------|
| Small                                      | below 4 years     | red    |
| Medium                                     | from 9 - 14 years | green  |
| Large                                      | over 15 years     | blue   |
| Only complete set S/M/L incl. stretch-belt |                   |        |



### T-Shield Gonad Protection (flexible) for male Patients

Flexible gonad protection, which can be shaped using velcro strips to a capsule. Close the hook & loop straps always outside.

Is easy to clean material with Supra-Pflege (see page 27) and to disinfect the inside of the gonad protection from SupraSoft.



#### Order Details

|                        |                      |
|------------------------|----------------------|
| <b>Lead Material</b>   | SupraNorm            |
| <b>Lead Equivalent</b> | 1,0 mm Pb            |
| <b>Cover</b>           | SupraSoft            |
| <b>Setting</b>         | Around Polyesterband |
| <b>Sizes</b>           | See on the chart     |
| <b>Closure</b>         | Velcro               |

| Size   | Age               | Colour         |
|--------|-------------------|----------------|
| Small  | below 9 years     | jupiterred     |
| Medium | from 9 - 14 years | mangrovengreen |
| Large  | over 15 years     | atollblue      |

Set, three sizes: S/M/L

additional hygiene when using the T-shield, we offer appropriate disposable hygiene bags in different sizes:  
100 pcs. each by package size  
300 pcs. per package in set size

| Size   |              |
|--------|--------------|
| Small  | 80 x 120 mm  |
| Medium | 120 x 170 mm |
| Large  | 160 x 250 mm |

### T-Shield Gonad Protection (flexible) for male Patients with stretch-belt for standing

Flexible gonad protection, which can be shaped using velcro strips to capsule. Close the hook & loop straps always outside. Therefore the inside of the gonad protection.

T-shields are equipped with loops through which a belt is pulled and with Velcro to close.

Is easy to clean material with Supra-Pflege (see page 27) and to disinfect the inside of the gonad protection from SupraSoft.



#### Order Details

|                        |  |
|------------------------|--|
| <b>Lead Material</b>   | SupraNorm  |
| <b>Lead Equivalent</b> | 1,0 mm Pb  |
| <b>Cover</b>           | SupraSoft  |
| <b>Setting</b>         | Around Polyesterband   |
| <b>Sizes</b>           | See on the chart.  |
| <b>Closure</b>         | Stretch-Belt with Velcro (120 cm) with loop for fixing T-shield. |

| Size   | Age               | Colour         |
|--------|-------------------|----------------|
| Small  | below 9 years     | jupiterred     |
| Medium | from 9 - 14 years | mangrovengreen |
| Large  | over 15 years     | atollblue      |

Only complete set S/M/L incl. stretch-belt

# X-ray

## Wrap around Apron Mantle jr.

Around apron for children



### Order Details

|                          |  |            |                      |
|--------------------------|--|------------|----------------------|
| <b>Lead Material</b>     | SupraLight   |            |                      |
| <b>Lead Equivalent</b>   | Front:   | 0,50 mm Pb |                      |
|                          | Back:  | 0,50 mm Pb |                      |
| <b>Cover and Colours</b> | Standard:  | SupraTex   | children design      |
|                          | On demand:   | SupraSoft  | atollblue (Standard) |
|                          | Available Colours: Page 5  |            |                      |
| <b>Setting</b>           | Around Polyesterband   |            |                      |
| <b>Sizes</b>             | See below on the chart   |            |                      |
| <b>Closure</b>           | 3 horizontal and 1 vertical Velcro-closure guarantee optimal wearing comfort |            |                      |
| <b>Storage</b>           | Wooden hanger inclusive.<br>Other storage see page 28 - 31.                  |            |                      |

| Size   | Length | Hip-girth | Age          |
|--------|--------|-----------|--------------|
| Small  | 50 cm  | 84 cm     | 3 - 5 years  |
| Medium | 60 cm  | 90 cm     | 6 - 8 years  |
| Large  | 70 cm  | 96 cm     | 9 - 12 years |

## Front Apron F jr.

Front apron for children



### Order Details

|                          |   |            |                      |
|--------------------------|---|------------|----------------------|
| <b>Lead Material</b>     | SupraLight  |            |                      |
| <b>Lead Equivalent</b>   | Front:  | 0,50 mm Pb |                      |
|                          | Back:   | 0,50 mm Pb |                      |
| <b>Cover and Colours</b> | Standard:   | SupraTex   | children design      |
|                          | On demand:  | SupraSoft  | atollblue (Standard) |
|                          | Available Colours: Page 5                                   |            |                      |
| <b>Setting</b>           | Around Polyesterband  |            |                      |
| <b>Sizes</b>             | See below on the chart                                      |            |                      |
| <b>Closure</b>           | Velcro stretch system crosswise closure on hips             |            |                      |
| <b>Storage</b>           | Wooden hanger inclusive.<br>Other storage see page 28 - 31. |            |                      |

| Size   | Length | Hip   | Age          |
|--------|--------|-------|--------------|
| Small  | 50 cm  | 42 cm | 3 - 5 years  |
| Medium | 60 cm  | 46 cm | 6 - 8 years  |
| Large  | 70 cm  | 50 cm | 9 - 12 years |



**Spine-belt**

The belt is for supporting the spine, so that there is a relieve for the back. We can also deliver in different sizes.

| Size    | Hip-girth    |
|---------|--------------|
| Small   | 63 - 76 cm   |
| Medium  | 76 - 89 cm   |
| Large   | 89 - 102 cm  |
| X-Large | 102 - 114 cm |



Front side



Back side

**SupraPflege-cleaner for aprons and disinfection**

For cover-material SupraTex and SupraSoft. Bottle 500 ml



**Velcro-brush for fastener**



# X-ray

## Mobile Storage Rack for aprons

With this mobile aprons holder can be kept handy and space-saving 6 or 10 aprons. Mobile frame sturdy rectangular steel tube.

Powder-coated with conductive castors  $\varnothing$  75 mm, accompanying wall hanger, base plate and frame made of V2A.

| Type  | Holder        | High / Depth / Width | Weight    |
|-------|---------------|----------------------|-----------|
| W6MF  | for 6 aprons  | 1585 x 620 x 480 mm  | ca. 19 kg |
| W10MF | for 10 aprons | 1585 x 620 x 580 mm  | ca. 22 kg |



## Mobile Storage Rack for skirt and vest

Same design as type W6MF / W10MF with additional crossbar to hold 6 or 10 skirts.



| Type   | Holder                     | High / Depth / Width | Weight    |
|--------|----------------------------|----------------------|-----------|
| W6RWF  | for 6 vests and 6 skirts   | 1680 x 775 x 645 mm  | ca. 24 kg |
| W10RWF | for 10 vests and 10 skirts | 1680 x 775 x 645 mm  | ca. 28 kg |

# X-ray

## Swivelling wall-rack for aprons

Hangers left and right swivelling  
 Material: Base-plate and hangers V2A  
 Load each hanger ca. 8 - 10 kg



## Hooks



1 pair hooks for skirt fixing  
 swivelling hanger



| Type | Holder        | Size of base-plate | Extension |
|------|---------------|--------------------|-----------|
| W1M  | for 1 apron   | 100 x 140 mm       | 540 mm    |
| W2M  | for 2 aprons  | 100 x 140 mm       | 540 mm    |
| W3M  | for 3 aprons  | 140 x 140 mm       | 540 mm    |
| W4M  | for 4 aprons  | 185 x 140 mm       | 540 mm    |
| W5M  | for 5 aprons  | 230 x 140 mm       | 540 mm    |
| W6M  | for 6 aprons  | 275 x 140 mm       | 540 mm    |
| W10M | for 10 aprons | 455 x 140 mm       | 540 mm    |

# X-ray

## Wall-rack for one apron

For one apron. Easy to access.  
Also suitable for other types of aprons.



| Type | Holder        | Size of base-plate |
|------|---------------|--------------------|
| WM   | for one apron | 275 x 150 mm       |

## Wall-rack for one apron and one pair gloves



| Type | Holder                            | Size of base-plate |
|------|-----------------------------------|--------------------|
| WMH  | for one apron and one pair gloves | 275 x 150 mm       |

## Wall-rack for skirt and vest

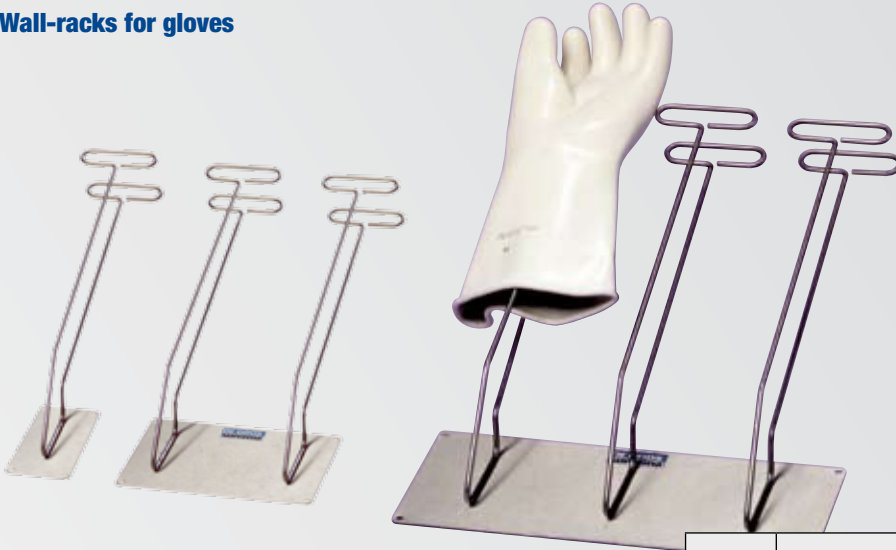
### Wooden hanger



| Type | Holder               | Size for base-plate |
|------|----------------------|---------------------|
| WRW  | for 1 skirt and vest | 275 x 150 mm        |

# X-ray

## Wall-racks for gloves



| Type | for           | Size of base-plate | Holder   |
|------|---------------|--------------------|----------|
| WH1  | 1 pair gloves | 120 x 150 mm       | 2 holder |
| WH2  | 2 pair gloves | 225 x 150 mm       | 4 holder |
| WH3  | 3 pair gloves | 360 x 150 mm       | 6 holder |

## Wall-rack

For Dental-aprons (D/DR) and lead-sheeting



| Type | for                          | Size of base-plate | Width of holder |
|------|------------------------------|--------------------|-----------------|
| WD   | D/DR aprons / Lead-sheetings | 275 x 150 mm       | 600 mm          |

## Wall-rack for half-aprons with hip clamp

| Type  | Size of base-plate |
|-------|--------------------|
| WHSP1 | 275 x 95 mm        |
| WHSP  | 275 x 190 mm       |

WHSP1



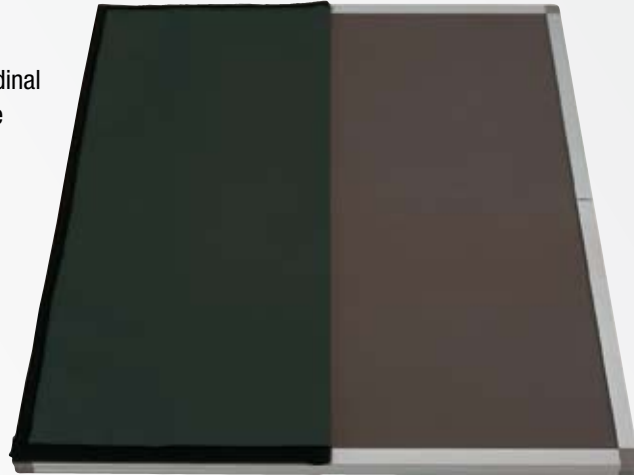
WHSP



# X-ray

## Cover for cassettes

Half division of cassettes longitudinal or cross in the outside measure of the cassettes.



### Single-layer material

For self cutting or as a cover we provide our 'single-layer material black', without cover, in the lead equivalent values:  
0,25 mm Pb, 0,50 mm Pb,  
0,80 mm Pb or 1,0 mm Pb.

| Cassette size / cm | Complete dimension / cm | Longitudinal / cm | Cross / cm  |
|--------------------|-------------------------|-------------------|-------------|
| 13 x 18            | 15,5 x 20,5             | 7,8 x 20,5        | 15,5 x 10,3 |
| 18 x 24            | 20,5 x 26,5             | 10,3 x 26,5       | 20,5 x 13,3 |
| 24 x 30            | 26,5 x 32,5             | 13,3 x 32,5       | 26,5 x 16,3 |
| 20 x 40            | 22,5 x 42,5             | 11,3 x 42,5       | 22,5 x 21,3 |
| 30 x 40            | 32,5 x 42,5             | 16,3 x 42,5       | 32,5 x 21,3 |
| 35,6 x 35,6        | 38,0 x 38,0             | 19,0 x 38,0       | 38,0 x 19,0 |
| 35,6 x 43,2        | 38,0 x 45,7             | 19,0 x 45,7       | 38,0 x 22,9 |

## Order Details

|                        |                   |
|------------------------|-------------------|
| <b>Material</b>        | SupraNorm (black) |
| <b>Lead Equivalent</b> | 0,80 mm Pb        |
| <b>Size</b>            | See on chart      |

## Radiation protection type SKR

For shoulder and head





# X-ray

## Protection-Winding

For covering and wrapping patients in flexible material fixed with velcro fastener



### Order Details

|                          |   |
|--------------------------|---|
| <b>Material</b>          | SupraNorm   |
| <b>Lead Equivalent</b>   | 0,50 mm Pb  |
| <b>Cover and colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours page 5 |
| <b>Setting</b>           | Around Polyesterband  |
| <b>Size</b>              | See on the chart  |
| <b>Closure</b>           | Velcro for fixing   |
| <b>Storage</b>           | Wall-rack WD see page 31  |

#### Size / cm

|                       |              |
|-----------------------|--------------|
| 18 x 80               | for children |
| 25 x 100              | for children |
| 80 x 120              | for adults   |
| 100 x 150             | for adults   |
| other sizes on demand |              |

## Lead-Sheeting for patients

Lead-sheeting for diagnostik and therapie



### Order Details

|                          |   |
|--------------------------|---|
| <b>Material</b>          | SupraNorm   |
| <b>Lead Equivalent</b>   | 0,50 mm Pb, 1,0 mm Pb   |
| <b>Cover and colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours page 5 |
| <b>Setting</b>           | Around Polyesterband  |
| <b>Size</b>              | See on the chart  |
| <b>Storage</b>           | Wall-rack WD see page 31  |

#### Size / cm

|                       |
|-----------------------|
| 50 x 60               |
| 60 x 60               |
| 70 x 60               |
| 80 x 60               |
| 90 x 60               |
| 100 x 60              |
| other sizes on demand |

# X-ray

## X-ray protection curtains



We have developed a curtain which will provide protection against scatter radiation, is easy to fit in place and thus has a wide range of uses:

- passage
- enclosing curtains
- separation of working areas
- window coverings
- double- and multi-thickness curtains

The curtains are easy to draw and - since they are very flexible - can easily be pushed to one side when passing through; passing between two overlapping curtains is particularly simple.

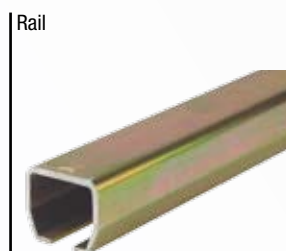


Maximum width 120 cm.  
Length as required, standard lengths 200 cm. Widths greater than 120 cm can be obtained by arranging overlapping curtains on double rails, or by strapping two curtains edge-to-edge. The curtains are firmly gathered at the top edge, and are provided with eyelets and metal loops for hanging from runners (or rings) fitting whatever rail in use. The curtain can be supplied to order without eyelets, for clamping onto a rigid rail.

We are always glad to make up curtains to special requirements. They should be hang from the normal double-T-section drawn-steel rail, which can be curved; heavy-duty rail with extra-thick web should be used for the 0.5 mm Pb curtaining. The curtains are supplied without rails and runners, which can easily be obtained to suit individual needs, and we only supply these items to special order. Lead equivalents of 0.75 mm and 1.0 mm Pb can be obtained by hanging two curtains on double rails. Problems of firm suspension prevent the manufacture of 1 mm Pb in a single thickness.

### Order Details

|                          |   |
|--------------------------|---|
| <b>Material</b>          | SupraNorm   |
| <b>Lead Equivalent</b>   | 0,25 mm Pb,<br>0,35 mm Pb,<br>0,50 mm Pb  |
| <b>Cover and colours</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours page 5 |
| <b>Setting</b>           | Around Polyesterband  |
| <b>Size</b>              | On demand / Max. width 120 cm   |



# X-ray

## CT Patients Protection

Eyes and thyroids are among the organs which are very sensitive to X-ray radiation and afford a special protection during CT examinations.

For example the ICRP (International Commission on Radiological Protection) has estimated that the threshold for detectable opacities in the lens from a single brief exposure to be 0.5 - 2Gy. A yearly exposure of more than 0,1 Gy can lead to radiation cataracts.

Therefore the International and National Commissions on radiological protections recommend shielding for eyes and thyroids.

CT Eye and Thyroid Shields are the result of extensive development to produce a technically advanced and cost effective shielding for patients undergoing CT procedures.

## Advantages of a glance:

- Significant protection for Eye Lens and Thyroid
- Substantial dose reduction (in all CT scan configurations)
- Low image artefacts
- Easy to apply
- Hygienic single use
- Lead free
- Latex free
- Easy to disposal
- CE-marked

## CT Eye Shield

An integrated standoff pad ensures that image artefacts which may be created by the shielding are reduced to an absolute minimum. Hypoallergenic adhesive tabs to ensure that shields is fitted properly.

Attenuation: Up to 40%  
Sales unit: Box of 10 pcs.



## CT Thyroid Shield

Perfectly shaped to fit comfortably over the Adam's apple. Provides a significant dose reduction to the radiosensitive thyroid gland.

Attenuation: Upt to 60%  
Lead Equivalent: 0.125 mm Pb  
Sales unit: Box of 10 pcs.



# X-ray

## Positioning Aids

Set complete with box 81222000

Consisting of:

1 circular (81352000)

1 circular (81332000)

1 roll (80592000)

1 rectangle (81732000)

2 triangles (81412000)

2 triangles (81422000)

2 wedges (81512000)

**Material:** Skinfoam - PUR-K.-coated

**Attenuation:** Up to 70 - 140 kV

**Colour:** Yellow

**Cleaning:** Wet wipeable, surface disinfection



# X-ray

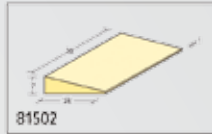
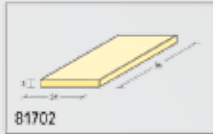
**81332000**  
**Circular**  
ø 22 x 5 cm



**81342000**  
**Circular** ø 15 x 4 cm

**81352000**  
**Circular** ø 22 x 5 cm

**81702000**  
**Rectangle**  
36 x 24 x 3 cm



**81502000**  
**Wedge, 15°**  
36 x 24 x 7/1 cm

**81712000**  
**Rectangle**  
18 x 24 x 3 cm



**81512000**  
**Wedge, 15°**  
18 x 24 x 7/1 cm

**81722000**  
**Rectangle**  
36 x 24 x 5 cm



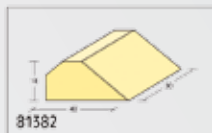
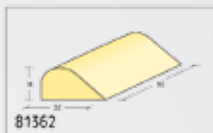
**81532000**  
**Wedge, 20°**  
18 x 28 x 10/1 cm

**81732000**  
**Rectangle**  
18 x 24 x 5 cm



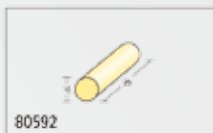
**81552000**  
**Wedge, 15°**  
18 x 28 x 8/1 cm

**81362000**  
**Neck shaped support**  
32 x 50 x 18 cm



**81382000**  
**Body support**  
40 x 30 x 18 cm

**80592000**  
**Roll**  
ø 10 x 25 cm



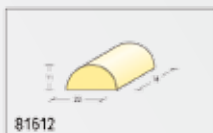
**81402000**  
**Triangle, 45°**  
36 x 24 x 12 cm

**81602000**  
**Halfroll**  
ø 22/11 x 36 cm



**81412000**  
**Triangle, 45°**  
18 x 24 x 12 cm

**81612000**  
**Halfroll**  
ø 22/11 x 18 cm



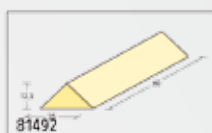
**81422000**  
**Triangle, 45°**  
18 x 10 x 5 cm

**81622000**  
**Halfroll**  
ø 15/7,5 x 36 cm



**81482000**  
**Triangle**  
60 x 30 x 15 cm

**81632000**  
**Halfroll**  
ø 15/7,5 x 18 cm



**81492000**  
**Triangle, 45°**  
60 x 25 x 12,5 cm

# X-ray

## Head-pad / back

|          |          |                        |
|----------|----------|------------------------|
| adults   | 81002000 | (25,0 x 24,5 x 9,5 cm) |
| children | 81012000 | (21,5 x 23,0 x 7,0 cm) |

## Head-pad / face

|          |          |                         |
|----------|----------|-------------------------|
| adults   | 81022000 | (26,0 x 21,0 x 10,0 cm) |
| children | 81032000 | (22,5 x 18,0 x 7,0 cm)  |

## Head-pad / lateral

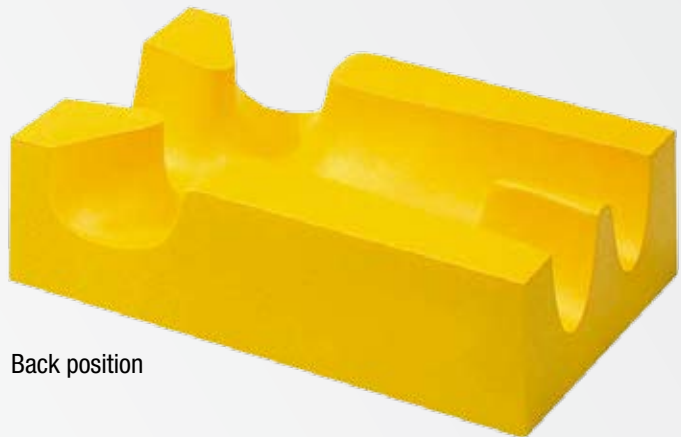
|           |          |                        |
|-----------|----------|------------------------|
| adults:   |          | (31,5 x 31,0 x 9,0 cm) |
| - left    | 81052000 |                        |
| - right   | 81062000 |                        |
| children: |          | (28,5 x 28,5 x 7,0 cm) |
| - left    | 81072000 |                        |
| - right   | 81082000 |                        |

## Positioning / lateral (Sonographie)

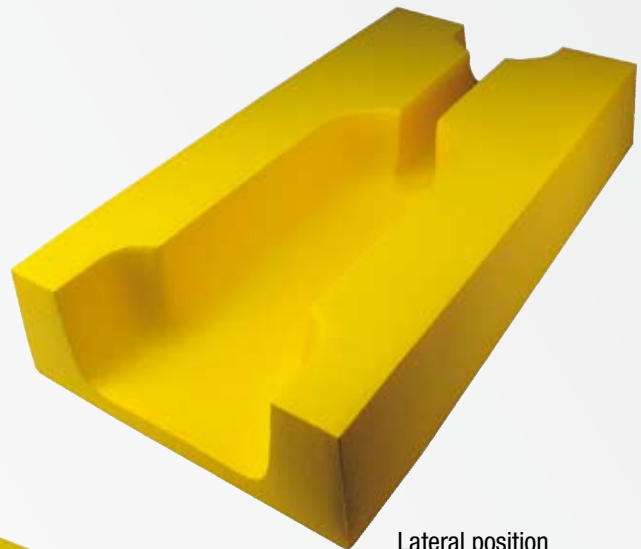
|        |          |                         |
|--------|----------|-------------------------|
| babies | 81092000 | (60,0 x 30,0 x 13,0 cm) |
|--------|----------|-------------------------|

## Positioning / back

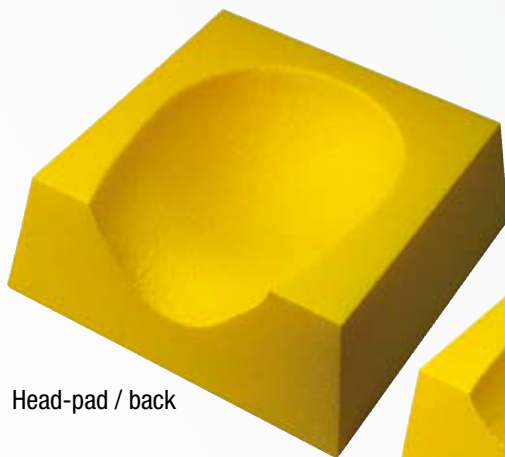
|         |          |                         |
|---------|----------|-------------------------|
| babies  | 80982000 | (40,0 x 25,0 x 12,0 cm) |
| infants | 80992000 | (53,0 x 34,0 x 14,0 cm) |



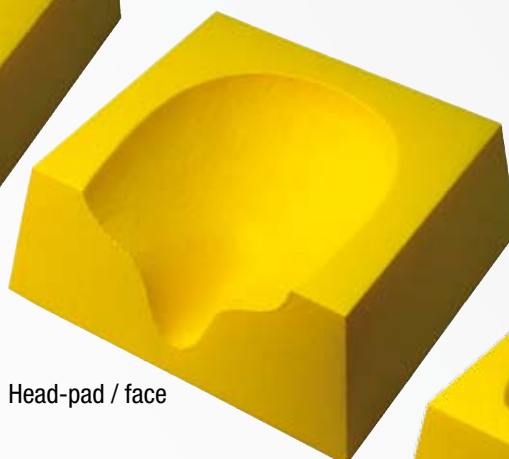
Back position



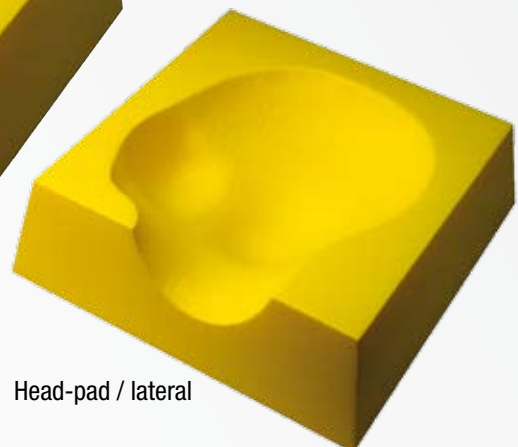
Lateral position



Head-pad / back



Head-pad / face



Head-pad / lateral

## Rice Flour Bags

Rice flour bags with cleanable cover.  
Only SupraSoft material.



| Size / mm | Weight / kg |
|-----------|-------------|
| 150 x 100 | 0,3         |
| 150 x 150 | 0,5         |
| 150 x 250 | 1,0         |
| 150 x 300 | 1,2         |
| 150 x 400 | 1,8         |
| 150 x 500 | 2,2         |
| 200 x 100 | 0,4         |
| 200 x 200 | 1,0         |
| 200 x 300 | 1,8         |
| 200 x 400 | 2,4         |
| 200 x 500 | 3,4         |
| 400 x 450 | 6,0         |
| 400 x 600 | 7,2         |

## Patient Table Pads

Warming foam pad for Bucky table.  
A thin radiolucent Alu-foil.  
With centre line.



Available: With velcro stripes for fixing on bucky-table.  
With rubber stripes for fixing on bucky-table.  
Each set, three pcs.

| Size / cm             | Thickness / cm |
|-----------------------|----------------|
| 200 x 50              | 2,0 (Standard) |
| 200 x 60              | 2,0 (Standard) |
| 200 x 60              | 3,0            |
| 200 x 70              | 2,0 (Standard) |
| Other sizes on demand |                |

Cleaning and disinfection with SupraPflege (see page 27)

## Order Details

|                         |   |
|-------------------------|---|
| <b>Material</b>         | Rice flour  |
| <b>Cover and Colour</b> | Only: SupraSoft atollblue<br>Other colours SupraSoft see page 5 |
| <b>Setting</b>          | Closed with Polyesterband                                       |
| <b>Size</b>             | See on the chart  |
| <b>Holder</b>           | On demand   |

## Order Details

|                         |   |
|-------------------------|---|
| <b>Material</b>         | Foam  |
| <b>Cover and Colour</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours see page 5 |
| <b>Setting</b>          | Closed with Polyesterband<br>Liquid can penetrate through side seam                                   |
| <b>Size</b>             | See on the chart  |

# X-ray

## Filmmarkers

### L (yellow) and R (red)

Thickness: 3 mm  
 Height of letters: 15 mm  
 Size: (H) 28 x (W) 20 mm



### L (yellow) and R (red) with initials

Thickness: 3 mm  
 Letter resp. numbers max. 3 initials  
 Height of letters: L and R: 15 mm  
 Height of initials: 5 mm



### L (yellow) and R (red) of acrylic glass with chain

Height of letters: L and R: 15 mm

### L and R of stainless steel with chain

Circular  
 Height of letters: ca. 16 mm



### L and R Clip

All of stainless steel designed to clip on the cassette.  
 Height of letters: 10 mm (ap)  
 Deliverable: (pa)

### L and R for bucky with magnet

Also for ap and pa  
 Set:  
 1 Magnetholder with  
 2 Set R&L 10 mm height



### L and R with magnet

made of acrylic glass, 2 mm thickness  
 Height of letters: 10 mm  
 With 5 metal stripes to fix on the cassette.



## Radiopaque Legends

Height of letters: 5 mm  
 Texts on demand

stehend

Example

## Letters A - Z

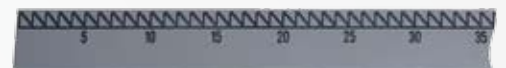
1 Set = 26 pieces  
 Height of letters: 7,5 mm (Standard)  
 Height of letters: 10 mm  
 Height of letters: 15 mm

## Numbers 0 - 9

1 Set = 13 pieces  
 Height of letters: 7,5 mm (Standard)  
 Height of letters: 10 mm  
 Height of letters: 15 mm

## X-ray ruler

grey plastic  
 Length: 10 to 150 cm  
 Distance: 2 mm  
 Width: 4 cm





# X-ray

## X-ray Protection Cape

### Order Details

|                         |   |
|-------------------------|---|
| <b>Material</b>         | SupraLight  |
| <b>Lead Equivalent</b>  | 0,25 mm Pb, 0,35 mm Pb, 0,50 mm Pb  |
| <b>Cover and Colour</b> | Standard: SupraTex royalblue<br>On demand: SupraSoft atollblue (Standard)<br>Other colours see page 5 |
| <b>Setting</b>          | Around Polyesterband  |
| <b>Size</b>             | One size with fixing system   |



## X-ray Breast Protection

Female patient protection for mamma

### Order Details

|                          |  |
|--------------------------|--|
| <b>Material</b>          | SupraNorm  |
| <b>Lead Equivalent</b>   | 0,50 mm Pb   |
| <b>Cover and Colours</b> | <b>adult:</b> SupraTex royalblue<br><b>children:</b> SupraTex children design<br>Other colours see page 5                  |
| <b>Setting</b>           | Around Polyesterband   |
| <b>Fixing</b>            | With variable velcro-closure on the front.<br>Two ribbon for closing on the neck.<br>Stretch ribbon to close on the spine. |





## Compensating Filter

### Universal Type / 80000202

Pre-emphasis filter for better X-rays

Thoracic spine, lumbar spine, shoulders, pelvis, etc. demand sophisticated X-ray technology on account of the high subject contrast circumference involved.

Equipped with 2 elements, the universal pre-emphasis filter produces pictures which disclose information hitherto obscured by the maximum blackening of X-ray film.



#### **Some sample applications Thoracic spine A-P**

starting from the head, adjust 1 filter element over 2/3 of the thoracic spine

#### **Dorsal spine lat.**

starting from the head, adjust filter element over 2/3 of the dorsal spine

#### **Shoulder**

allow 1 filter element to impinge diagonally sideways over 1/3 of the photographic field

#### **Pelvis**

slide 1 filter element from each side up to 1/3 into the photographic field



#### **Feet and hands A-P**

slide 1 filter elements as far as desired into the photographic field

#### **Positioning and fixing the filter elements to the collimator**

Slide mounting plate into the accessories rail of the X-ray apparatus (please quote dimensions when ordering).

The filter elements can be slid into any position singly or in pairs with the aid of their retaining magnets. The filter effect may be checked at any time in the photographic field of the collimator.

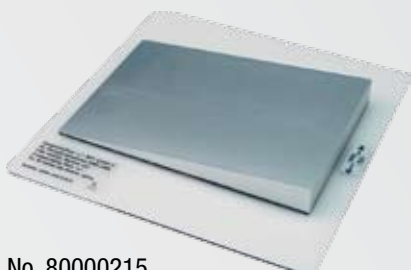
## Compensating Filter

### The compensating filter - a versatile filter for your X-rays

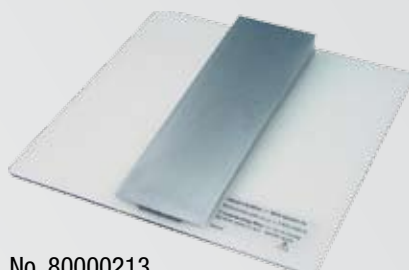
Compensation filters are made from a special aluminium alloy and allow for absorption compensation when screening different parts of the body. Difficulty caused by soft ray parts is effectively eliminated.

Thus X-ray quality is enhanced and exposure to radiation on the part of the patient is reduced.

Light collimator performance is near optimum owing to the transparent impact-resistant polycarbon base plates.



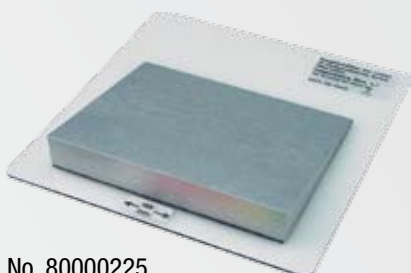
No. 80000215  
for X-rays of thoracic spine, lumbar spine and pelvis +/-



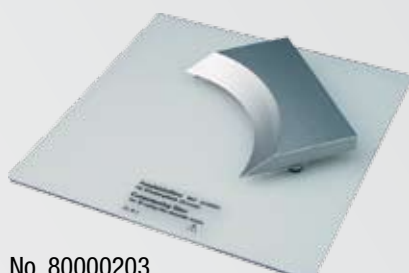
No. 80000213  
for X-rays of spine and extremities +/-



No. 80000214  
for X-rays of foot, of lungs in female patients, and for thoracic spine (anterior-posterior) +/-



No. 80000225  
for X-rays of total leg, upright positioned pelvis, high narrow-waist and broad-hip compensation +/-



No. 80000203  
for X-rays of shoulder joints (a.-p.)



No. 80000207  
for X-rays of skull (frontal und lateral)



No. 80000208  
for X-rays of thoracic spine (lateral), for anterior somatograms (Rippstein) in child orthopaedics



No. 80000209  
for X-rays of pelvis (a.-p.)



No. 80000216  
for X-rays of hand, fingers

If the filter suitable for your personal requirements is not available from our standard range, please send us a sketch. We will immediately submit our quotation for a filter customised to your needs.

### Pediatric filters

The use of pediatric filters renders a considerable reduction of the radiation load when taking X-ray images of children. The filters increase the hardness of the radiation; the portion of soft radiation not required for taking the images is minimized. We manufacture the filters in accordance with the requirements of the guidelines of the Federal General Medical Council with respect to the quality assurance in the field of X-ray diagnostics.

No. 80000204

1 mm Al/0,10 mm Cu

Usually, the filters are supplied in the size 170 x 176 mm and thus fit into the guide rails of most commonly used light diaphragms (e.g. Siemens, Philips). They are also available in special sizes.

**When ordering, please indicate the exact distance between the guide rails on the multileaf diaphragm on the X-ray machine or state manufacturer.**

# X-ray



**Dr. Goos-Suprema GmbH**  
Production of X-Ray Protection

Brechtelstr. 29, D-69126 Heidelberg  
P.O. Box 10 24 07, D-69014 Heidelberg

Phone: 0049 (0) 6221-33 71 79  
Fax: 0049 (0) 6221-37 21 66  
e-Mail: [info@drgoos-suprema.de](mailto:info@drgoos-suprema.de)  
Homepage: [www.drgoos-suprema.de](http://www.drgoos-suprema.de)