

### PRIMAX<sup>®</sup> radiation-protective clothing for use in medical radiology

#### Dental apron PRIMAX<sup>®</sup> soft



- ◀ **with integrated thyroid protector**
  - full coverage of front body and shoulder of the patient
  - Velcro-fastener in the neck
  - size:
    - adults W = 50 cm x L = 76 cm
    - children W = 40 cm x L = 64 cm

- with vertebral protection** ▶
  - for panorama and longdistance X-rays
  - special protection of the backbone
  - size:
    - adults W = 53 cm x L = 67 cm
    - children W = 46 cm x L = 56 cm



#### Heavy protective neck cover PRIMAX<sup>®</sup> soft with extension

- suitable both for radiation users and for patients
- used for protection of thyroid and sternum
- suitable for being worn in combination with protective PRIMAX Soft aprons
- easy to handle neck Velcro-fastener
- neck cover suitable for size 38-46, collar height 6 cm



#### Packing, transport, storage, maintenance

- detailed information is given in our directions for use which are attached to each article
- all PRIMAX soft articles are individually packed in strong plastic foil
- storing temperature should be kept between - 5 and + 35 °C
- all articles are easily washable and sanitisable
- regular inspections for damages before and regular cleaning after use is necessary

#### Quality assurance:

- PRIMAX Berlin GmbH is maintaining a quality management system as per ISO 13485
- PRIMAX soft radiation-protective articles comply with all guidelines of IEC 61331-3 as well as directive 89/686/EEC (articles for protection of medical personnel) and directive 93/42/EEC (articles for patient protection) and are therefore labelled with the CE mark

## Gonad shielding PRIMAX<sup>®</sup> soft

### Half apron (0,5 or 1,0 mm LE)

- for protection of patient's gonads during radioscopy of thorax and upper abdomen
- also used for protecting the patient from scattered radiation in the room during medical examination
- with waist fastening by simple buckle
- available in 4 sizes: 20 x 25 cm  
30 x 30 cm  
37 x 40 cm  
45 x 50 cm



### Ovary shields (1,0 mm LE)



- Each piece consisting of two parts
- Two sizes: medium = 18 x 24 cm  
large = 24 x 34 cm
- Packing/selling: per piece or as set of both sizes
- Used for female patients

### Scrotum shields (1,0 mm LE)



- Two sizes: medium = 9 x 12 cm  
large = 11 x 18 cm
- Packing/selling: per piece or as set of both sizes
- Used for male patients

### Shadow shields (1,0 mm LE) with fastening belt



- Three sizes: small = 10 x 12 cm  
medium = 14 x 17 cm  
large = 18 x 21 cm
- Packing/selling: set of three pieces
- Used when scrotum and ovary shields cannot be applied.

## Eye and thyroid protection (single use products)

### GrayShield Eye Protection for Patients

Ocular lenses are deemed to be the most irradiance-sensitive organs of humans. Head CT and general X-ray examinations can result in significant exposure to the lens of the eye. In cases where eyes during head CT are located unprotected in the radiation field lenses may receive average doses up to 50 mGy.

- GrayShield Eye Protection is the most cost effective shielding for such cases
- lens dose reduction between 40 and 45 per cent in all CT scan configurations may be reached. This level was found as the optimal compromise between best possible protection level and aspired image result
- designed for one-time use to prevent possible biological contamination between patients
- fitted with hypoallergenic adhesive tabs to ensure that shield is fitted properly

### GrayShield Thyroid Protection for Patients

- Shaped to fit comfortably over the Adam's Apple to provide a significant dose reduction to the radiosensitive thyroid gland
- designed for one-time use to prevent possible biological contamination between patients
- provides a Lead Equivalency (LE) of 0,125 mm

### Packaging and Waste Disposal

- above products are delivered in cardboard boxes with 50 pieces each
- both items are made from Barium Sulfate and can therefore safely disposed through normal waste procedures

