



## Fact Sheet

### EXTRAGUARD Upper Technology for GORE-TEX Safety Footwear

#### Abstract

For heavy work in different weather conditions, robust, waterproof and breathable footwear that provides reliable protection is essential. The new 3-layer EXTRAGUARD upper technology enables the production of a completely new class of GORE-TEX safety footwear. For the first time - as scientific tests have shown, they are not only extremely robust and light, they also remain light even after months of intensive use in wet, dirty surroundings. Like all GORE-TEX safety shoes, they are also durably waterproof and breathable.

#### Concept

##### 3-layer EXTRAGUARD upper technology construction:

- The highly abrasion-resistant and robust protective layer
- The functional layer, the thickness of which can vary for specific uses
- The innovative low water absorption construction.

This 3-layer upper technology is sealed with GORE® Seam Tape and then processed into a safety footwear together with the GORE-TEX lining (bootie construction).



## Technical details

- GORE-TEX EXTRAGUARD safety footwear is **durably waterproof and breathable**: they exceed the required values according to EN ISO 20345/347.
- **Very robust**: The shoes provide reliable and safe protection against mechanical loads, everyday chemicals, heat, and moisture. They do not change shape or color and retain their properties over the entire service life of the product.
- **Stay light even when wet**: The abrasion resistant EXTRAGUARD upper technology is 40 percent lighter than leather even when dry. Since it absorbs little moisture from the outside, GORE-TEX EXTRAGUARD safety footwear remains light over the long term - even after long exposure to water or loss of the initial impregnation.
- **Fast re-drying**: The re-drying time of GORE-TEX EXTRAGUARD safety footwear is considerably shorter than that of safety shoes with conventional upper material.
- **Easy to clean, no maintenance required**: Simply spray off with water. Care products are not required.
- **Reduced heat loss when wet**: Moisture penetrates from the outside only as far as to the low water absorption construction layer of the EXTRAGUARD upper technology. Heat loss is reduced, and cold bridges avoided. The feet stay dry and at a pleasant temperature even in wet surroundings.

## Ideal for use in the following areas

- Utilities (water, electricity, gas)
- Railways
- Landscaping
- Construction
- Oil and gas
- Forestry, agriculture
- Mining etc.