

wenaas[®] | ID



A Safety Shoe Revolution



From Idea to Innovation

A Unique Research and Development Project

Quantitative and qualitative evaluation of safety shoes at SINTEF



 wenaas®

 **SINTEF**

 AkerBP

equinor 

 OneCo®

ORION GROUP
PROUD TO PRODUCE

 Funded by
The Research
Council of Norway

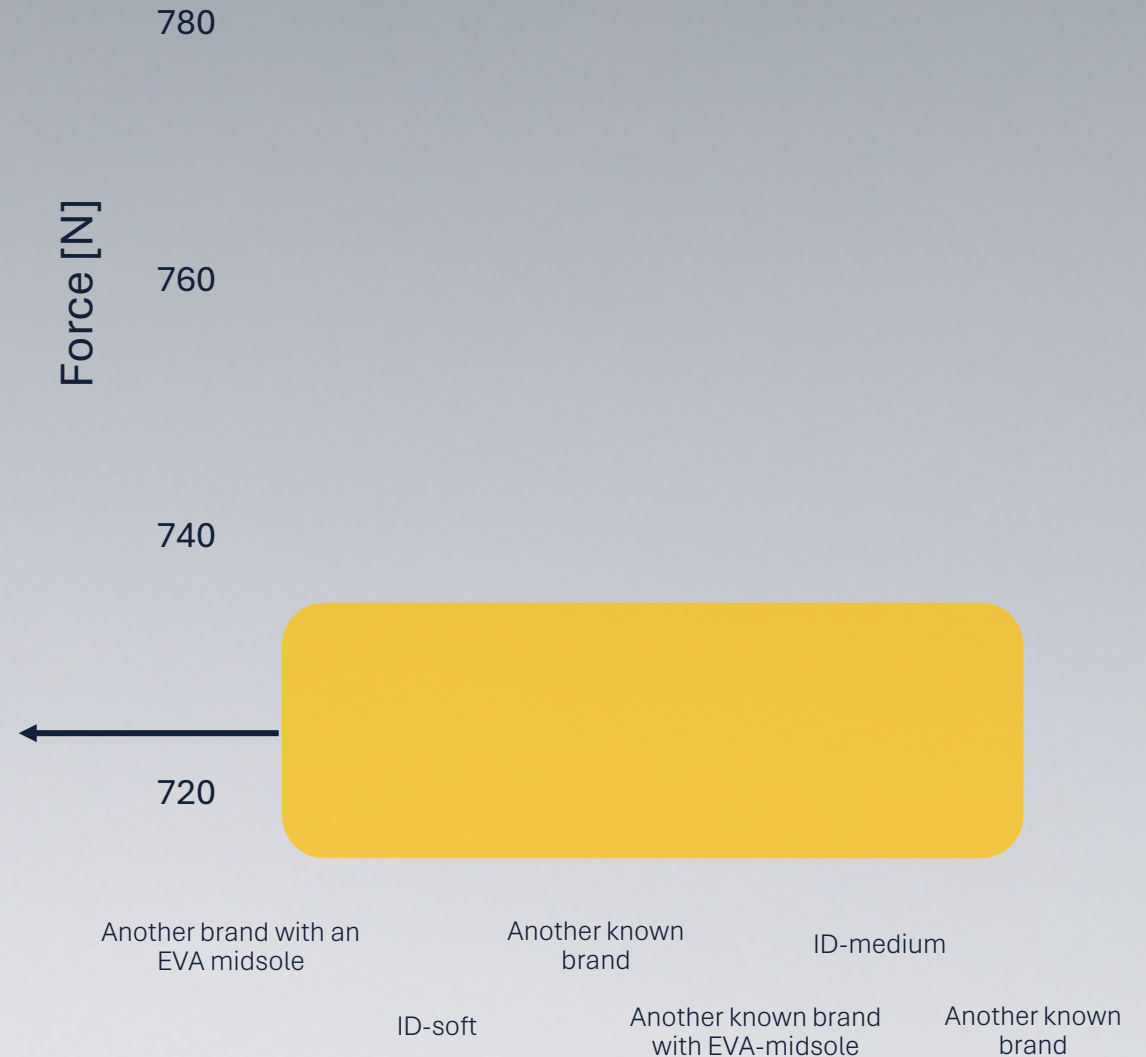


The Result of the Research Project

Measurement of plantar pressure during walking



SINTEF tested two different material densities in the new InLet. Both resulted in significantly reduced heel pressure.





Exceptional User Feedback

Extensive testing offshore and onshore



...“During my 14-day rotation, I always had to take painkillers because of pain in my joints and knees. After I started using the new shoes, I didn’t take any painkillers at all during the entire 14-day period. That’s when I realized Wenaas is definitely on the right track with the design of these shoes. For me, it was truly revolutionary – and incredibly comfortable.”

— *Offshore Worker*

This statement highlights the real impact our product has on reducing physical strain and improving quality of life for users working under demanding conditions.

The Result

A safety shoe that feels like a trainer



New technology



Outsole

Replaceable InLet

Puncture-resistant midsole

Existing technology



Outsole

Midsole

Thin inlayer sole

Puncture-resistant midsole

The InLet is not exposed to external conditions

When the midsole is not exposed to environments such as acid, oil, sun, or salt, it will last much longer.

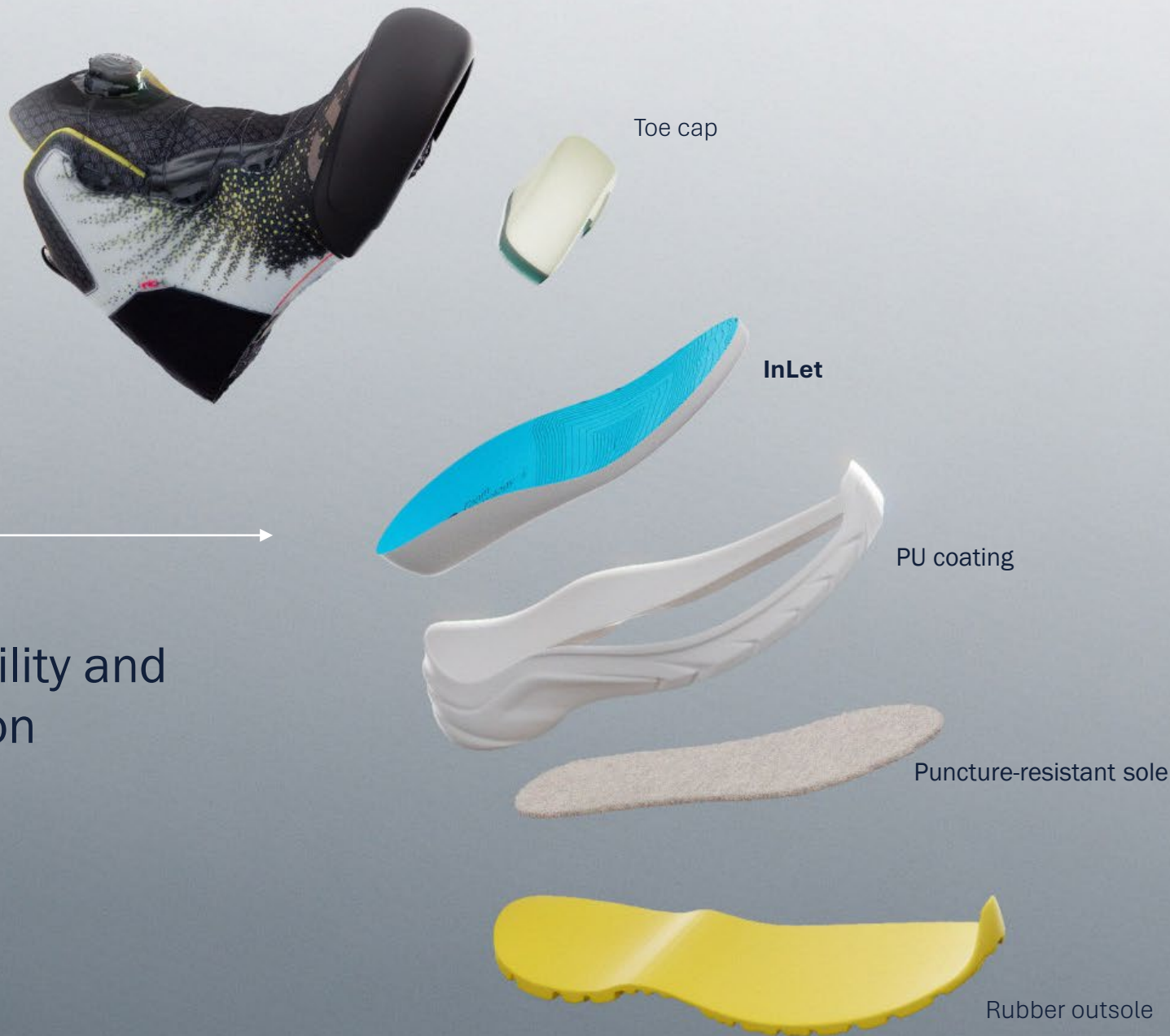
EVA handles this type of stress very poorly and ages quickly if it is not protected.



Innovative **InLet**-design

The midsole is designed as a
replaceable **InLet**

This provides increased flexibility and
opportunities for customization



- InLets



Soft

Ideal for users with stationary work or lower body weight. Standard in safety shoes up to size 40.



Medium

Suitable for users who alternate between stationary work and moderate walking. Standard in safety shoes from size 40 and up.



Firm

Ideal for users who walk a lot during the workday, as well as for users with higher body weight. The InLet provides increased stability.

Can be replaced to provide renewed comfort or tailored ergonomics.

A new InLet instead of new safety shoes:

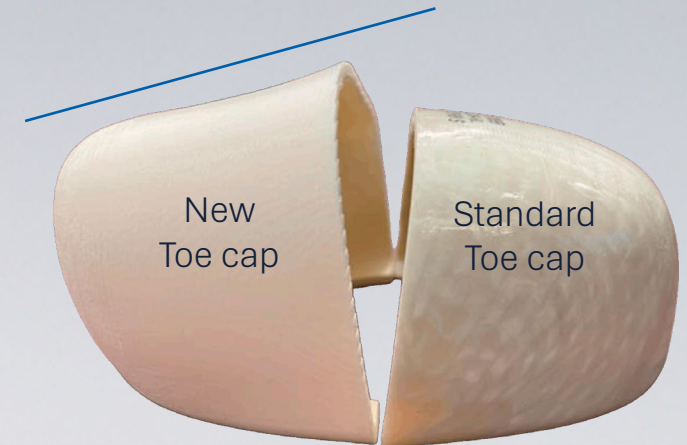
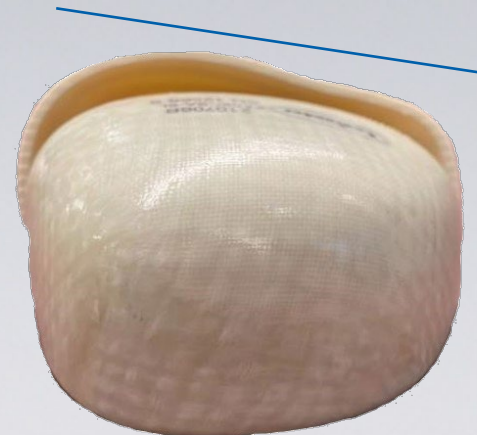
- improved ergonomics
- improved economy
- improved sustainability

Size range all InLets: 36 - 48



New toe-cap construction that provides more room for the toes

- Newly developed toe cap
- Asymmetrical design for a better fit
- New construction that eliminates pressure on the instep when working on your knees



– materials

The choice of materials
extends the lifespan of the
shoes — only the InLet needs
to be replaced



– materials



Nika Dyneema®

- 15 times stronger than steel, used in bulletproof vests
- Lightweight and flexible, more durable than leather
- Wenaas is the first to introduce this material in footwear



PuTek®

- Extremely strong material with excellent abrasion resistance
- Withstands getting wet and drying without the material being affected



HDry®

- Waterproof membrane system
- Functions as a sock laminated directly onto the outer material
- OEKO-TEX® 100 certified



Puncture Block

- Soft and flexible midsole
- No hard surfaces between the outsole and the InLet
- Protects against sharp objects that may penetrate the outsole
- Produced according to GRS standards, using sustainable and environmentally friendly materials



Sustainability

Significant reduction in environmental impact



Benchmark model: Wenaas Berserk Burr
30,96 kg CO₂ eq. per pair

16,14
kg CO₂ eq. per pair
difference
VS.



New Wenaas: Wenaas ID safety shoe
14,82 kg CO₂ eq. per pair

The new safety shoes contribute 52.1% less kilograms of CO₂-equivalent greenhouse gas emissions per pair compared to Wenaas' baseline model.

Significantly lower carbon footprint

- Wenaas ID has 52.1% lower carbon emissions (kg CO₂ eq. per pair) compared to traditional safety shoes (leather shoes).
- A major advancement in sustainable innovation for industrial safety footwear.





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