TECHNICAL DATA SHEET

CALVIN S3 HI No. 8681 — Sz. 38 - 50





LABELLING ACCORDING TO STANDARD

Standard for footwear protecting against thermal risks and splashes of molten metal EN ISO 20349-1 S3 (supplement to EN ISO 20345)	Basic requirement for S3: **A** Antistatic shoe - **E** Energy absorption in the heel - **FO** Fuel resistance - **WRU** Water penetration and water absorption resistant upper - **P** Penetration resistance - Closed heel area - Profiled outsole
Additional requirements	**SRC** Slip resistance: Slip resistant on floors of ceramic tiles with a sodium lauryl sulfate (SLS) solution and on steel floors with glycerol. When it comes to slip resistance as defined by EN ISO 20345, SRC signifies the best possible rating a safety shoe can reach. **Al** RESISTANT TO MOLTEN ALUMINIUM **Fe** RESISTANT TO MOLTEN IRON **HI** HEAT INSULATED **HRO** HEAT RESISTANT OUTSOLE Heat resistance against contact heat, also during short-term high temperatures

FORM

Safety boot 	Form C - in size 42, the upper height must be at least 17.8 cm.

AREAS OF APPLICATION	
Areas of application	Indoors and outdoors Areas where exposure to moisture is expected (S2) Areas where there is a risk of penetration from pointed and sharp objects (S3/ S3L/S3S) Hot zones where high demands are placed on the sole for heat resistance E.g. foundries, welding works etc. Areas where there is a risk of molten iron splashes Areas where there is a risk of molten aluminium splashes
FEATURES	
Sizes (unisex model)	• Expanded size range: available in sizes 38 - 50
Certification in accordance with DGUV rule 112-191	• Certified for orthopaedic inserts 
Full, padded bellows tongue	• Excellent wearing comfort: The tongue prevents pressure marks and avoids dirt from entering into the shoe.
Collar padding	• Excellent wearing comfort: the ankle-wrapping, softly padded upper edge provides for stability and grip in the shoe.
Protective collar	• Additional protection against heat / flying sparks
Quick release fastener	• Allows shoes to be removed with one hand in the case of danger • The tongue can be adjusted by means of a buckle
Seams made of heat-resistant thread	• Best possible protection against flames, heat and chemicals. Cleaning does not affect the heat resistance.
PU toe protection (polyurethane)	• Directly applied tip protection • Excellent wear protection in the shoe tip area • Protects the upper material in this area against premature wear
UPPER MATERIAL	
Cowhide leather - fire-resistant	• Areas of application S2/S3 • Natural material • Wear-resistant • Breathable • Water penetration/absorption in accordance with EN ISO 20345 S2
LINING	
Leather lining	• High tear resistance • Breathable • Natural material
Heel pocket lining	• The abrasion-resistant microfibre material is particularly sturdy and provides for a pleasant wearing comfort.

TOE PROTECTION CAP

Steel toe cap

- Protection against impacts of min. 200 joules and pressure loading of min. 15 kN
- Permanent edge coverage for cushioning
- Ergonomically shaped
- Comfortable toe room
- Good coverage of the little toe area

INLAY SOLE

Full-length inlay sole aluminium-coated

- Needled with aluminium foil for an improved heat preservation
- The full-length, exchangeable inlay sole provides the highest possible comfort in safety shoes.
- The inlay sole is functionally absorbing and releasing moisture and thus provides for a pleasant foot climate.
- Antistatic

INSOLE

Antistatic soft-fleece insole

Antistatic, even if 100 % dry, without using additional means fulfilling a bridge function to the outsole.

- Approximately 50 % lighter than comparable soles made of natural materials
- Flexible and shape-retaining
- Good air permeability
- Excellent wear resistance
- High moisture absorption
- Quick drying (virtually overnight)

PENETRATION RESISTANCE

Steel midsole

Best possible protection from below: The corrosion-resistant midsole made of stainless steel complies with the penetration safety standard EN 12568 and furthermore fulfils the additional requirements for penetration protection in accordance with EN ISO 20344 / 20345. Particularly recommendable when working in areas where there is an increased risk of injuries due to pointed or sharp objects, such as in the construction industry.

OUTSOLE

SAFETY-GRIP deep-treaded double-density sole with profile

- S-line shaped configuration of the tread blocks, for an ergonomic foot roll
- Excellent slip resistance
- Antistatic

Outsole: Rubber

- Colour: black
- Profile depth: 6.0 mm
- Particularly abrasion-resistant
- Heat-resistant to approx. 200°C, for short periods to 300°C
- Flexible at cold temperatures to approx. -20°C
- Oil and fuel resistant
- Resistant to a large number of chemicals (acids and alkalis)
- Notch-resistant

Midsole: PU (polyurethane)

- The soft PU core provides a good impact absorption and high wearing comfort