



# TECHNICAL SPECIFICATIONS

## FOOTWEAR STYLE 683, DUAL DENSITY POLYURETHANE INJECTED SOLE

Ultra-lightweight safety high boot. With steel or composite toe cap.

This model is ergonomically designed, made with "Pull Up" leather, with an oiled/waxed finish. It has a SicMesh® inner lining (textile and 100% breathable). It is sewn with triple stitching.

The boot has a composition leather counter and a polyester-based insole with SicTex® membrane (antibacterial and extremely breathable).

The outsole is made of dual-density elastomeric microcellular polyurethane, made of a polyurethane midsole with lower density (to increase cushioning) and an extremely flexible and lightweight outsole.

## MATERIAL SPECIFICATIONS

### Protective toe cap:

Minimal residual height of toe cap is 19.5 mm, Steel or composite. If Steel, made with SAE 1050 Steel, hardened with electrostatic epoxy coating, resistant to corrosion, impact and compression.

Puncture resistant textile midsole, 100% metal free (1.100 N force)

Test Standard	Specification
ASTM 2412	UNE EN ISO 20344
NVC 39:2003	PDVSA EM 36-01/01

## OUTSOLE

Grade 1 Polyurethane outsole according to ASTM D3851, formulated to resist hydrocarbon fuels and lubricants. Anti-slip and doesn't scratch the floor.

### General Properties of the Outsole:

- Tensile strength and elongation to breaking point (higher than 4.9 MPa and 300%)
- Tear strength (higher than 22.0 and 11.5 KN/m)
- Bending fatigue resistance: 150,000 cycles
- Abrasion resistance:
  - ≤ 300 mm<sup>3</sup>: E.T.M. PDVSA, ≤ 350 mm<sup>3</sup>: ISO 4649 standard

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## MANUFACTURED SHOE

### General Properties of manufactured shoe:

- Resistance of union of upper-sole: 800 N force
- Test voltage of 14 kV for AC (alternating current) with leakage current less than or equal to 3 milli Ampere (mA). For DC (direct current) at 30kV with leakage current not greater than 50 micro Ampere (µA).
- Impact test on footwear: 12.5 mm minimal height.
  - Compression test: 19.5 mm minimal height.
  - Puncture resistance: 1,100 N force

Test Standard	Specification
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"At Calzados Sicura, we develop and manufacture industrial safety and work shoes with the highest quality standards, complying with the requirements of our clients and any applicable standards, working with a valuable team focused on continually improving our Management System."

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