

CENTURY SUPER SAFETY4000 KNEE

81181 (W23315)

ISO 20345:2004 S5

Personal protective equipment, safety footwear

DIRECTIVE 89/686/EEC

EN 13287:2004

Slip resistance



TECHNICAL DATA:

Style description:

black rubber upper and black rubber sole

Classification:

II, Designs D and E

Category:

S5

Construction:

vulcanized, hand built

Size range:

35 to 48

Last:

5110

Mould:

Hunter 4000 Series

Toecap:

200J Flecksteel 3700

Steel midsole :

ISCO 1620

Requirements	Reference	Symbol
Design	Height of upper Design D: No 43 - min. 290 mm Design E: Design D equipped with thin impermeable material	
Anti-static properties	Electrical resistance above 100 k Ω and less than or equal to 100 M Ω Test voltage of (100 \pm 2)V between the copper plate and steel balls for 1 min	A
Impact resistance	Internal length – min. 40mm for N $^{\circ}$ 43 Impact energy – 200J Min. clearance – 14.5mm for N $^{\circ}$ 43, no cracks	SB
Compression resistance	Compression load – 15000N Min. clearance – 14.5mm for N $^{\circ}$ 43	
Penetration resistance	Test nail : diameter (4,50 \pm 0,05)mm, hardness-60HRC Speed nail (10 \pm 3)mm/min Force required to penetrate > 1100N	P
Energy absorption of seat region	Energy absorption of the seat region not less than 20J At the centre of the heel area at a test rate of (10 \pm 3)mm/min until a force of 5000 N is obtained	E
Flexing resistance	Upper – No cracking before 125,000 flex cycles Outsole – cut growth < 4.0mm before 30,000 flex cycles	
Abrasion resistance	Volume loss < 250mm 3	
Slip resistance	Coefficient of friction: heel > 0.28 Flat > 0.32 Ceramic tile floor with sodium lauryl sulphate	
Resistance to fuel oil	Volume increase <12%, volume shrinks >0.5% Changes in hardness > 10Sh-A cut growth < 6mm before 150,000 flex cycles	
Leakproofness	Pressure (10 \pm 1) kPa, time 30s, no leakage of air	
Specific ergonomic features	- Walk normally for 5 minutes at a speed of approx. 6km/h - Climb and descend (17 \pm 3) stairs for 1 minute - Kneel/crouch down After completion of tests all results relating to footwear comfort and functionality are positive.	