



Cofra Thermic Safety Wellington S5

Code: **BLACK - BW4521, WHITE BW4621, GREEN BW4721**

**6-13
sizes**



COFRA[®]
BORN TO WORK



Down to -25 °C



- Cold Defender PU upper, antibacterial, resistant to -25 °C
- Fiberglass cap, non metallic fiberglass resistant to 200 J
- TPU resistant to -25°C outer sole
- Thermo welded polyester internal lining
- Extremely soft and comfortable footbed
- Standard: EN ISO 20345:2011
- Safety Rating: S5 HRO CI SRC



Description: Black polyurethane/Nitrile Rubber boot, water resistant, antistatic, anti-shock, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**

Plus: Metal free. Abrasion resistant cleats 11 mm. **Cold Defender PU** is a special compound which guarantees higher performances than the ordinary PU for mechanical resistance to low temperatures and thermal insulation. Innovative extra-light compound. It resists very well to hydrolysis, so that the boot maintains its chemical and physical performance during time. **A perfumed essence is added to the compound to prevent nasty odours.** **Cold Insulation -50°C** (the thermal comfort inside the boot stays optimal). Very good resistance to mineral oils and hydrocarbons. **COLD BARRIER** footbed made of soft and scented polyurethane, antistatic, anatomic, insulating against low temperatures. The thermal comfort inside the footwear is granted thanks to the special polyurethane compound devised to give high insulation. Fleece lined. Kick off lug. Also available with thermo-insulating inner lining or collar upon request

Suggested uses: Boots for refineries

Care and maintenance: FOR A PROPER MAINTENANCE WASH THE BOOT AFTER USE. Clean it after each use drying off in ventilated areas, away from heat sources; remove all the residuals of contaminating stuff or dust with a good shoe-brush or a duster. Wash the boots with water and soap. Do not use aggressive products (acids, benzene, solvents) which may alter quality, protection functions and life of the boot

MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
Complete shoe	metatarsal protection	6.2.6.2	Shock resistant (free high after shock)	mm	40	≥ 40
	Cut resistance	6.2.8.3	Cut resistance	Factor	6	≥ 2,5
	Malleolus protection (Internal side)	6.2.7	Malleolus protection (Internal side) (medium power)	kN	7	Media ≤10
			(maximum single power)	kN	8	Singola ≤15
	Malleolus protection (External side)	6.2.7	Malleolus protection (External side) (medium power)	kN	7	Medium ≤10
			(maximum single power)	kN	8	Single ≤15
	Toe cap: non metallic fiber glass toe cap, impact resistant until 200 J	5.3.2.3	Shock resistant (free high after shock)	mm	17,5	≥ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (free high after compression)	mm	18,5	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation	6.2.1	Penetration resistance	N	To 1100 N no perforation	≥ 1100
	Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance - wet - dry	MΩ MΩ	107 680	≥ 0.1 ≤ 1000
Leg	Cold insulation	6.2.3.2	Cold insulation (temp. decrease after 30' at -17 °C)	°C	7,5	≤ 10
	Energy absorption system	6.2.4	Shock absorption	J	37	≥ 20
		5.3.3	Leak proof ness	----	any air leak	any air leak
		5.4.4	Breaking off extension	Mpa	1,7	from 1,3 to
			Extension coefficient to 100%	%	270	4,6
		5.4.5	Flexing resistance	cycle	After 150.000 no break	≥ 250 After 150.000 no break
Insole	Cold Defender PU, antibacterial, resistant to -25°C, antishock and thermally insulating, colour black	5.8.3	Abrasion resistance (lost volume)	mm ³	198	≤ 150
		5.8.4	Flexing resistance (cut increase)	mm	2,5	≤ 4
Outer Sole	Nitrile rubber (HRO): hydrolysis, abrasion and slipping resistant, high grip, colour black	5.8.6	Interlayer bond strength	N/mm	4,3	≥ 3
		6.4.4	Hot resistance (300 °C)	----	any melting	any melting
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	3	≤ 12
	Adherence coefficient of the sole	5.3.5	SRA : ceramic + detergent solution – flat		0,39	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		0,37	≥ 0,28
			SRB : steel + glycerol – flat		0,20	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		0,18	≥ 0,13