COFRA®
BORN TO WORK

PRODUCT SHEET

KARMA GREY S3 SRC

Prod. Ref.	30530-003
Safety cat.	S3 SRC
Range of sizes	36 - 48 (3 - 13)
Weight (sz. 8)	580 g
Shape	A
Width (3 - 6)	10
Width (6,5 - 13)	11

Description: Black/grey high tenacity fabric, partly made of ecological yarns, water repellent and leather shoe, **DRYFRESH** 100% polyester fabric lining, antistatic, anti-shock, slipping resistant, non-woven fabric puncture resistant midsole **PEP Plate** - **Zero Perforation**

Plus: **METAL FREE**. Polyurethane/TPU sole with 3 self-modelling gel insert with different density in the metatarsal and calcaneal support points, they adapt to the shape of the plantar arch, by absorbing the different percentages of applied loading force. **SALUS** footbed, preformed, holed, made of antistatic expanded polyurethane foam, which can satisfy all different walking needs. The preformed line ensures the proper support throughout the whole working day, in every point of support of the foot. The very low hardness of the material provides a "cushion effect", without affecting the perfect posture of the user during all phases of walking and flexions. Perfumed sole. **Abrasion resistant leather toe cap protection**

Suggested uses: Construction, maintenance, industries

Care and maintenance: Clean after each use and dry off away from direct heat. Avoid contact with aggressive chemicals or extreme temperature. Avoid immersion in sea water, lime water or cement mixed with water

MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2011	Description	Unit	Cofra result	Requirement
Complete shoe	**Toe cap:** non metallic **FIBERGLASS** toe cap, impact resistant until 200 J	5.3.2.3	Shock resistance (clearance after shock)	mm	**14,5**	≥ 14
	and compression resistant until 1500 kg	5.3.2.4	Compression resistance (clearance after compression)	mm	**19,5**	≥ 14
	Puncture resistant fabric: conductive, almost entirely recycled, made of special non-woven fibers, 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	MΩ	**263**	≥ 0.1
			- dry	MΩ	**765**	≤ 1000
	Energy absorption system	6.2.4	Shock absorption	J	**27**	≥ 20
Upper	high tenacity fabric, partly made of ecological yarns, water repellent, colour black/grey	5.4.6	Water vapour permeability	mg/cmq h	**> 20,7**	≥ 0,8
			Permeability coefficient	mg/cmq	**> 186,6**	> 15
		6.3.1	Water absorption		**15%**	≤ 30%
			Water penetration		**0,0 g**	≤ 0,2 g
Upper	Black water repellent leather	5.4.6	Water vapour permeability	mg/cmq h	**> 1**	≥ 0,8
	thickness 1,8/2,0 mm		Permeability coefficient	mg/cmq	**> 15,2**	> 15
		6.3.1	Water absorption		**8%**	≤ 30%
			Water penetration		**0,0 g**	≤ 0,2 g
Vamp	Textile, breathable, abrasion resistant, colour black	5.5.3	Water vapour permeability	mg/cmq h	**> 6,3**	≥ 2
lining	Thickness 1,2 mm		Permeability coefficient	mg/cmq	**> 51,1**	≥ 20
Quarter	**DRYFRESH** 100% polyester fabric, breathable, abrasion resistant, colour light grey	5.5.3	Water vapour permeability	mg/cmq h	**> 9,9**	≥ 2
lining	thickness 1,2 mm		Permeability coefficient	mg/cmq	**> 80**	≥ 20
Sole	Antistatic Polyurethane/TPU directly injected in the upper:	5.8.3	Abrasion resistance (lost volume)	mm^3	**73**	≤ 150
	Outsole: Black TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.	5.8.4	Flexing resistance (cut increase)	mm	**1,5**	≤ 4
	Midsole: Light grey polyurethane, low density, comfortable and anti-shock.	5.8.6	Interlayer bond strength	N/mm	**4,1**	≥ 3
		6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	**3**	≤ 12
	Adherence coefficient of the sole	5.3.5	SRA : ceramic + detergent solution – flat		**0,37**	≥ 0,32

Made by Technical Dept.

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SRA : ceramic + detergent solution – heel (contact angle 7°)	**0,29**	≥ 0,28
SRB : steel + glycerol – flat	**0,19**	≥ 0,18
SRB : steel + glycerol – heel (contact angle 7°)	**0,15**	≥ 0,13

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