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LEGAL DATA:
C.F e Reg.Imp.Novara: 02041920030
CCIAA Novara REA: 211799
P.IVA: IT02041920030
Codice Export: No015724
Cap.Soc.: 119.000 lv

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REV. 11/11/2024

DATA SHEET

PRODUCT PICTURE

RANGES

TECHNOLOGIES

RI10324 NIAGARA UK S3 SRC CI ESD
Natural Confort 11
AirToe Composite
SHOE TYPE "B"
SIZE RANGE 35-48 (UK: 2-13)
Size tested: 42 - WEIGHT Kg 1,195



RED INDUSTRY
Green



wingtex

Save & Flex
plus
Green

BASF
We create chemistry

METAL FREE
100%

Natural
CONFORT 11

Airtoe
COMPOSITE

Wow2
Green



DESCRIPTION

TECHNICAL SPECIFICATIONS

EN ISO STANDARD

VALUE

Low environmental impact winter safety shoes made with recycled materials and materials obtained from renewable sources that uphold the criteria of eco-sustainability and respect for the environment, completely Carbon Neutral (zero CO2 emissions).

This high, comfortable and light safety footwear from the Red Industry Green range has a soft, micro-fibre upper containing a high percentage of recycled material.

The Save & Flex Plus Green anti-puncture system, completely fabric and "Metal Free", is made with 59% recycled material, as is the Wingtex Green air tunnel lining (66% recycled material).

Eco-bio footwear with ultra-light AirToe Composite toe cap (weighing just 50 gr).

U-Power Green shoes guarantee a high level of protection and comfort, in respect of the environment and eco-sustainability, whilst maintaining the recognised high level of quality of the U-Power name.

100% of the materials used in the WOW2 Green insole (which supports the foot with an enveloping sensation of prolonged well-being) and is ESD, anti-slip, oil resistant and abrasion resistant sole comes from renewable sources, both in BASF PU. The insole is anti-bacterial, anatomic and anti-static.

Eco-sustainable safety footwear suitable for assembly line, industrial, logistics and automotive work.

SAFETY TOE CAP "AirToe Composite"

Impact resistance. Free heights after collision mm
Compressive strength. Free heights after compr. mm

≥ 14

≥ 14

20345:2022

RESULT

19,5

20,5

INSOLE "Save & Flex PLUS® Green, anti-puncture, "no metal" insole containing 59% recycled material"

Puncture resistance N

≥ 1100

Compliant

ELECTRICAL RESISTANCE CATEGORY

< 10⁹ Ω

Compliant

UPPER DYNAMIC WATERPROOFING AFTER 60'

Water absorption after 60'

≤ 30%

5,3

Water transmitted after 60'

≤ 0,2 gr

0

Permeability to water vapor mg/(cm² h)

≥ 0,8

1,5

Permeability coefficient mg/cm²

≥ 15

15,1

VAMP LINING

Permeability to water vapor mg/(cm² h)

≥ 2

96,3

Permeability coefficient mg/cm²

≥ 20

770,5

Resistance to abrasion - DRY cycles

25.600 cycles

Compliant

Resistance to abrasion - WET cycles

12.800 cycles

Compliant

INSOLE

Abrasion resistance

≥ 400 cycles

No damage

SOLE WEAR

Abrasion resistance (volume loss) mm³

≤ 150

61

Bending resistance mm

≤ 4

0

Resistance to sole / midsole detachment N/mm

≥ 3

5,0

Hydrocarbons resistance (% volume variation)

≤ 12

8,4

Heel energy absorption J

≥ 20

28

SLIP RESISTANCE

Slip resistance on ceramic with NaLS (forward heel 7°)

≥ 0,31

0,40

Slip resistance on ceramic with NaLS (backward forepart 7°)

≥ 0,36

0,48

SR-Slip resistance on ceramic with glycerin (forward heel 7°)

≥ 0,19

0,21

SR-Slip resistance on ceramic with glycerin (backward forepart 7°)

≥ 0,22

0,27