

## HALF PIPE 8A11.23

**S3 SRC ESD**

PAG. 1/2  
**SIZES 35 - 47**



STEEL  
TOE CAP



Q-FLEX  
INSOLE



SHOE  
RESISTANCE TO  
WATER ABSORPTION



ESD  
ELETROSTATIC  
DISCHARGE

## NORMS EN ISO 20345:2011

**S3** - Closed heel area with the following characteristics:

**E** - Heel energy absorption

**A** - Antistatic footwear

**FO** - Resistance to fuel oil of the outsole

**P** - Penetration resistance sole

**WRU** - Water penetration resistant uppers

### ADDITIONAL CHARACTERISTICS:

**SRC** - Slip resistance on ceramic + sodium lauryl sulfate and steel + glycerin

**ESD** - EletroStatic Discharge (EN 61340-5-1)

## ADVANTAGES

Water absorption resistant materials | Breathable | Comfortable |  
Excellent anti-slip characteristics

## WORK ENVIRONMENT

INDOOR JOBS | ADMINISTRATIVE | WAREHOUSE

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S3 SRC ESD



PAG. 2/2  
CERTIFICATION NUMBER

## TECHNICAL INFORMATION

MATERIALS	STANDARDS	DESCRIPTION	UN.	RESULTS	EN ISO 20345 REQ.
<b>UPPER</b> - SUEDE - Water resistant and highly durable material made of polyester fibers. Animal Friendly	<b>6.6+6.8</b>	<b>WATER VAPOUR PERMEABILITY</b>	mg/cm <sup>2</sup>	<b>6,7</b>	min. 0,8
		<b>COEFFICIENT OF PERMEABILITY</b>	mg/cm <sup>2</sup>	<b>55,3</b>	min. 15
	<b>6.3</b>	<b>TEARING STRENGTH</b>	N	<b>117</b>	min. 60
	<b>6.13</b>	<b>TRANSMITED WATER AFTER 60 MIN</b>	g	<b>0,0</b>	max. 0,2
		<b>ABSORVED WATER 60 MIN</b>	%	<b>5,1</b>	max. 30
<b>UPPER LINING</b> - POROMAX - Innovative technology due to a special structure of internal chambers that removes hot moist air over the top of the shoe and facilitates uniform temperature distribution whitin the shoes.	<b>6.6+6.8</b>	<b>WATER VAPOUR PERMEABILITY</b>	mg/cm <sup>2</sup>	<b>60,5</b>	min. 2,0
		<b>COEFFICIENT OF PERMEABILITY</b>	mg/cm <sup>2</sup>	<b>484,1</b>	min. 20
	<b>6.3</b>	<b>TEARING STRENGTH</b>	N	<b>29</b>	min. 15
<b>HEEL LINING</b> - POROMAX - Innovative technology due to a special structure of internal chambers that removes hot moist air over the top of the shoe and facilitates uniform temperature distribution whitin the shoes.	<b>5.5.1</b>	<b>TEARING STRENGTH</b>	N	<b>29</b>	min. 15
	<b>6.12</b>	<b>ABRASION RESISTANCE (DRY)</b>	-	<b>approved</b>	51.200
		<b>ABRASION RESISTANCE (WET)</b>	-	<b>approved</b>	25.600
<b>ELECTROSTATIC DISCHARGE (ESD)</b> Conductive properties of the shoe.	<b>61340-5-1</b>	<b>PROPIEDADES ELÉTRICAS ESD</b>	MΩ	<b>&lt;100</b>	< 100
<b>INSOLE</b> - Q-FLEX - non metallic and anti-static.	<b>6.2.1.1</b>	<b>PERFORATION RESISTANCE</b>	N	<b>approved</b>	no perforation
<b>INSOCK</b> - COMFORT - Made of polyurethane foam with anti-static points. Supports and stabilizes the foot, optimizing the distribution of the weight and facilitating the balance. Easy to remove for cleaning and drying.	<b>5.5.2</b>	<b>ABRASION RESISTANCE (DRY)</b>	cycles	<b>approved</b>	25.600
		<b>ABRASION RESISTANCE (WET)</b>	cycles	<b>approved</b>	12.800
	<b>7.2</b>	<b>WATER DESORPTION</b>	%	<b>approved</b>	min 80
		<b>WATER ABSORPTION</b>	mg/cm2	<b>approved</b>	min 70
<b>RUBBER SOLE</b> - BASKET - Rubber is a great material for safety soles, extremely durable, with excellent anti-slip and the best resistance fuel and oils. This sole has excellent slip resistance, either in wet floor or ceramic floor.	<b>8.2</b>	<b>TEARING STRENGTH</b>	N/mm	<b>10,9</b>	min 8
	<b>8.3</b>	<b>ABRASION RESISTANCE</b>	mm <sup>3</sup>	<b>91</b>	max 150
	<b>8.4</b>	<b>BENDING RESISTANCE</b>	mm	<b>-</b>	max 4
	<b>8.6</b>	<b>OIL RESISTANCE</b>	%	<b>1,1</b>	max 12
		<b>VOLUME VARIATION</b>		<b>1,1</b>	max 12
		<b>OIL RESISTANCE INCREASED TOUGHNESS</b>	Shore A	<b>&lt;10</b>	max 10
<b>FULL SHOE</b>	<b>5.11</b>	<b>SLIP RESISTANCE ON CERAMIC FLOOR WITH WATER AND DETERGENT</b>	flat heel	<b>0,42</b>	min. 0,32
			heel	<b>0,56</b>	min. 0,28
		<b>SLIP RESISTANCE ON STEEL FLOOR WITH GLYCERINE</b>	flat heel	<b>0,16</b>	min. 0,18
			heel	<b>0,13</b>	min. 0,13
	<b>5.4</b>	<b>IMPACT RESISTANCE</b>	mm	<b>0,13</b>	min. 13,0
	<b>5.5</b>	<b>COMPRESSION RESISTANCE</b>	mm	<b>17,5</b>	min. 14,0
	<b>5.14</b>	<b>CHOCK ABSORPTION (HEEL)</b>	J	<b>20</b>	min. 20
	<b>5.2</b>	<b>ADHESION STRENGTH SOLE/CUT</b>	N/mm	<b>25</b>	min. 4,0
				<b>4,3</b>	

SHOE WEIGHT (SIZE 42): 610g