

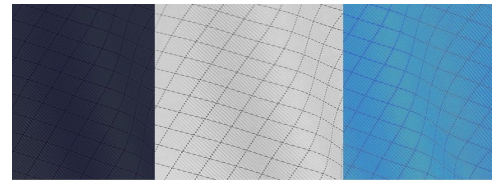
TX4000 Series

ESD Hard Sole Boots with Ground Ribbons



TX40BH Series - ESD Hard Sole Hypalon Boots with Ground Ribbons (Groundable)

- TX4000 ESD Grid Fabric—99% Polyester / 1% Carbon
- PSTAT ESD Hard Sole with twill reinforcement
- Combination 1" elastic and webbing at top of closure with snap adjustment
- Replaceable 18" internal ground ribbon attachment included, with 24" long ground ribbon available for boots
- Internal snaps to electrically connect to coverall and ground ribbon
- Color coded straps denote size
- Reusable / Launderable
- ISO Cleanroom: ISO 6 (Class 1000)
- Meets standards required for ANSI/ESD S20.20 and STM9.1 - Footwear – Resistive Characterization



*

Care Instructions

Laundry: Make sure all zippers and snaps are closed. Use a mild detergent or neutral soaps. Wash at 120°F for colors and 140°F for whites. Rinse cold. No bleach. Tumble dry moderate (140°F). After drying tumble dry cold for 5 minutes. No iron. Our garments should BS laundered prior to 1st wear.

Part Numbers	Size
TX40BHHW01	XS
TX40BHHW02	S
TX40BHHW03	M
TX40BHHW04	L
TX40BHHW05	XL
TX40BHHW06	2XL

Product Color: White or Navy Blue. Change WH (White) for NB (Navy Blue)

Specifications

Color	White/Navy/Light Blue*
Sizes	XS-2XL
Country of Origin	Thailand
Type	Boot Covers
Fabric Type	TX4000 5MM Grid
Fabric	99% Polyester/1% Carbon
Sole	PSTAT Hard ESD Sole
Closure	Buckle
Construction	Connects to Coverall
Use	Reusable/Launderable
Grounding	18" Ground Ribbon (24" Available)

Performance

ISO Cleanroom	ISO 6 (Class 1000)
ANSI/ESD S20.20	Yes
Static Control Property	Static Dissipative: <3.5x10e7

*Light Blue Color Available By Request

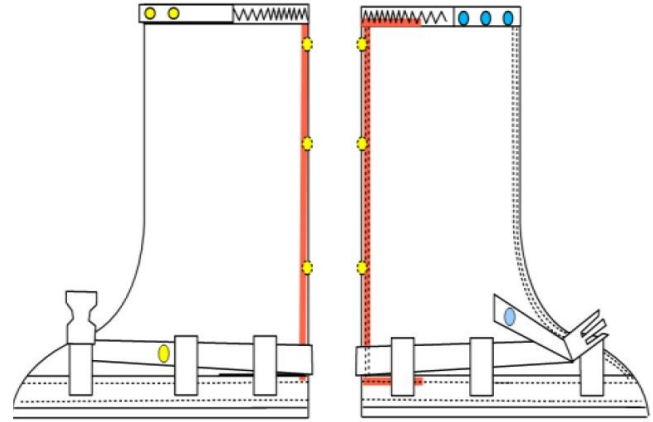
TX4000 Series

ESD Hard Sole Boots with Ground Ribbons

TX4000 Fabric Typical Performance Specification

Test	Units	75 Washes	100 Washes
Filtration Efficiency	% captured, >0.5µm	14.10%	13.90%
Filtration Efficiency	% captured, >5µm	65.60%	65.90%
Particle Generation (ASTM F51 Particle Spec)	#>5µm/sq.ft.	250.1	288.1
Fibre Generation (ASTM F51 Fibre Spec)	Particle Spec >100µm<10 µm/sq.ft.	6.8	6.4
Particles Helmke Drum Method	0.5µm/min : <1200	54.5	51.2
Surface Resistivity	ohms/square	10 ⁷	10 ⁷
Abrasion Resistance, 1000 cy.	% weight loss	1.90%	1.90%
Abrasion Resistance, 1000 cy.	# of tears	0	0
Air Permeability	cu.ft./minute/sq.ft.	>2.0	>2.0
Water Vapor Transmission	grams/sq.m/hour	80.12	78.91

TX40BH Series - ESD Hard Sole Boot Drawing



Strap Color	Size
Pink	XS
Yellow	SM
Blue	MD
Brown	LRG
White	XL
Green	2XL

TX4000 System Standards

The TX4000 Systems complies with **ANSI ESDS20.20 & IEST-RP-CC052.1 standards** and qualifies as a Category 3 cleanroom ESD garment capable of grounding mobile operators with both soft and hard sole boots.

- Cleanroom Garments meet the requirement for Groundable Static Control Garment System per ANSI/ESD S20.20 required limit of $< 3.5 \times 10^7$ ohm Rtg tested per ANSI/ESD STM2.1 and ESD TR53 (23° ± 1° C, 12% ± 3% RH, and 50% ± 5% RH).
- Cleanroom Boots meet the requirement for footwear per ANSI/ESD S20.20 Required limits of $< 1.0 \times 10^9$ Rtg per ANSI/ESD 9.1-2022 and ESD TR53 (23° ± 1° C, 12% ± 3% RH, and 50% ± 5% RH).



About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.