



SHELL SERIES ST-9045



SHELL™ GRD LEVEL 2 IMPACT MULTI-LAYER ANTI-VIBRATION GLOVES WITH **TORQUEGUARD™** PALM DAMPENING, **SHOCKSHELL™** TPR ARMOR, HIGH ABRASION RESISTANCE, PUNCTURE PROTECTION

Specially engineered around the anti-vibration hazard, ST-9045 combines Level 2 impact protection with TORQUEGUARD™ palm dampening technology to reduce transmitted vibration and palm impact during prolonged mechanical work.

SHOCK SHIELD™ TPR armor protects knuckles and fingers, while TORQUEGUARD™ helps absorb vibration for improved control and reduced hand fatigue. High-grip construction supports secure tool handling, with a TPR Velcro strap providing a firm fit for extended use.

FEATURES

- **Multi-Layer Impact Design** delivers heavy-duty protection against impact and vibration in multi-hazard
- **TaskCore™** Zone optimized coverage aligning protection with task-specific exposure areas
- **TorqueGuard™** Palm-based vibration dampening system reducing transmitted shock and torque
- **Anti-Slip Diamond Palm** ensures reliable grip control across wet, dry, and oily surfaces
- **DryHold™** Moisture-wicking system that maintains internal dryness and reduces slippage during use
- **Gel Palm Padding** restrains vibration and absorbs impact to reduce hand fatigue during prolonged use
- **Reinforced Pull Tab** enables quick donning and doffing during demanding tasks
- **Hook-and-Loop Wrist Closure** provides a secure fit with integrated wearer identification label

STANDARDS



MATERIALS

Liner: Foam Laminated, Polyester Spartex
Coating: Synthetic Leather & Gel Pads
Cuff Style: Hook & Loop Wrist Closure

SIZES

7	S
8	M
9	L
10	XL
11	2XL

PACKING DETAILS

1	Pair Per Polybag Retail Ready
60	Pairs Per Carton

GRD TECHNOLOGY

SHOCK SHELL

FLEX SPINE

TORQUE GUARD

TASK CORE

SHELL GRD™ Impact protection through sculpted TPR structures, articulated motion zones, and angular force redirection to minimize blunt force trauma.

ESSENTIAL TECHNOLOGIES



APPLICATIONS





ESSENTIAL
TECHNOLOGY

ST-9045 SHELL SERIES

SHOCK GRD
TECHNOLOGY



DryHold™
Internal liner system
that wicks away sweat
and moisture

Anti-vibration Foam
and Gel Palm Padding
Reduces Vibration
and Absorbs Impact

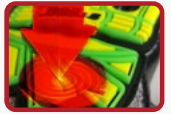
Multi-layer
Foam-laminated Stretch
Liner delivers Cushioned
Comfort and Flexibility

Molded TPR Impact
Protection for
Knuckles, Thumb &
Full-Length Fingers



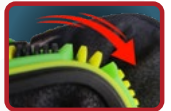
Diamond-pattern Palm
delivers Superior Grip &
Handling Performance

Molded Hook & Hoop
Closure with Neoprene
Cuff delivers a Secure,
Comfortable fit



**SHOCK
SHELL**

Vertical impact absorption
zones made from
compressive TPR



**FLEX
SPINE**

Articulated finger-aligned
TPR that allows natural
bending



**TORQUE
GUARD**

Glove stabilization panel
that locks fit during
twisting or torque



**TASK
PURE**

Task-mapped TPR placement
aligned with real-world
hazard zones

ENGINEERED WITH STEGO TECHNOLOGIES

PERFORMANCE & COMPLIANCE

ST-9045 meets the requirements of applicable EN & ANSI/ISEA standards.

EN ISO 21420:2020
+A1:2024



EN ISO 21420:2020 + A1:2024
General Requirements

ANSI/ISEA 105



ANSI/ISEA 105-2024

Mechanical Protection
Cut Resistance:
Abrasion Resistance:
Puncture Resistance:

A1
4
3

ANSI/ISEA 138



ANSI/ISEA 138-2019
Level 2 - ≤ 6.5kN

EN 388:2016
+A1:2018



4131XP

EN 388:2016 + A1:2018
Protection Against Mechanical Risks

Abrasion Resistance: 4
Blade Cut Resistance (Coupe Test): 1
Tear Resistance: 3
Puncture Resistance: 1
Cut Resistance (TDM 100 Test-ISO 13997): X
Impact Protection: P

EN ISO
10819:2013



TR_h = 0.62
TR_h = 0.55

EN ISO 10819:2013

Protective Against Mechanical Vibration & Shock
Medium-Frequency (25-200 Hz): TRM ≤ 0.62
High-Frequency (200-1250 Hz): TRM ≤ 0.55

PACKAGING INFORMATION	7 / S	8 / M	9 / L	10 / XL	11 / 2XL
MASTER CARTON DIMENSION	60X48X32 CM	60X48X32 CM	60X48X32 CM	60X48X32 CM	60X48X32 CM
NET WEIGHT	15.30 KG	16.10 KG	17.00 KG	17.80 KG	18.70 KG
GROSS WEIGHT	16.20 KG	17.10 KG	18.00 KG	19.10 KG	20.00 KG
CBM	0.092	0.092	0.092	0.092	0.092
HS CODE	42032900	42032900	42032900	42032900	42032900



LIMITATION OF USE

Properly fitting safety gloves are crucial for safety. Poorly-fitting gloves cause irritation and hinder hand movements. Ensure they meet your required safety level and fit comfortably for optimal protection and functionality. The glove should not be worn in areas where there's a risk of entanglement or where there are moving parts. Avoid using gloves if there are signs of damage or defects.