

TECGEN51 MULTIPURPOSE PPE

OVERVIEW

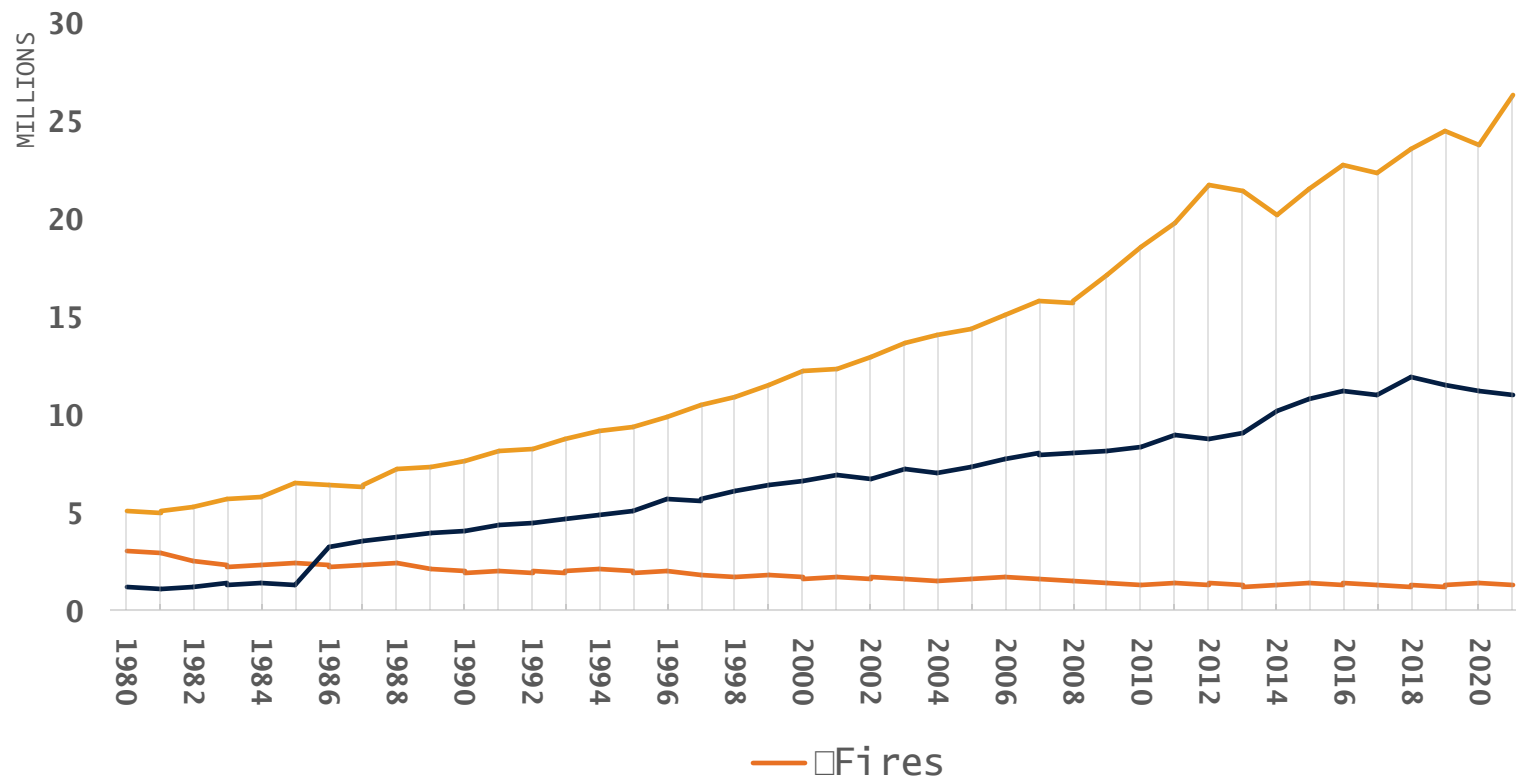
Single-layer, lightweight garment

Keeps you and your gear fighting fit:

- Less weight and more breathability means less risk of heat stress and fatigue
- Decreases wear and tear on turnout gear
- Reduces exposure to carcinogens
- Easier to maneuver in tight spaces



U.S. FIRE DEPT. RESPONSES



421%
↑ EMS CALLS

54%
↓ FIRE CALLS

HEAT STRESS

#1 cause of LODDs are due to cardiac-related issues

Factors of heat stress relating to PPE:

- Weight
- Flexibility
- Thickness
- Length of time the PPE is being worn
- Work rate, fitness level, & hydration

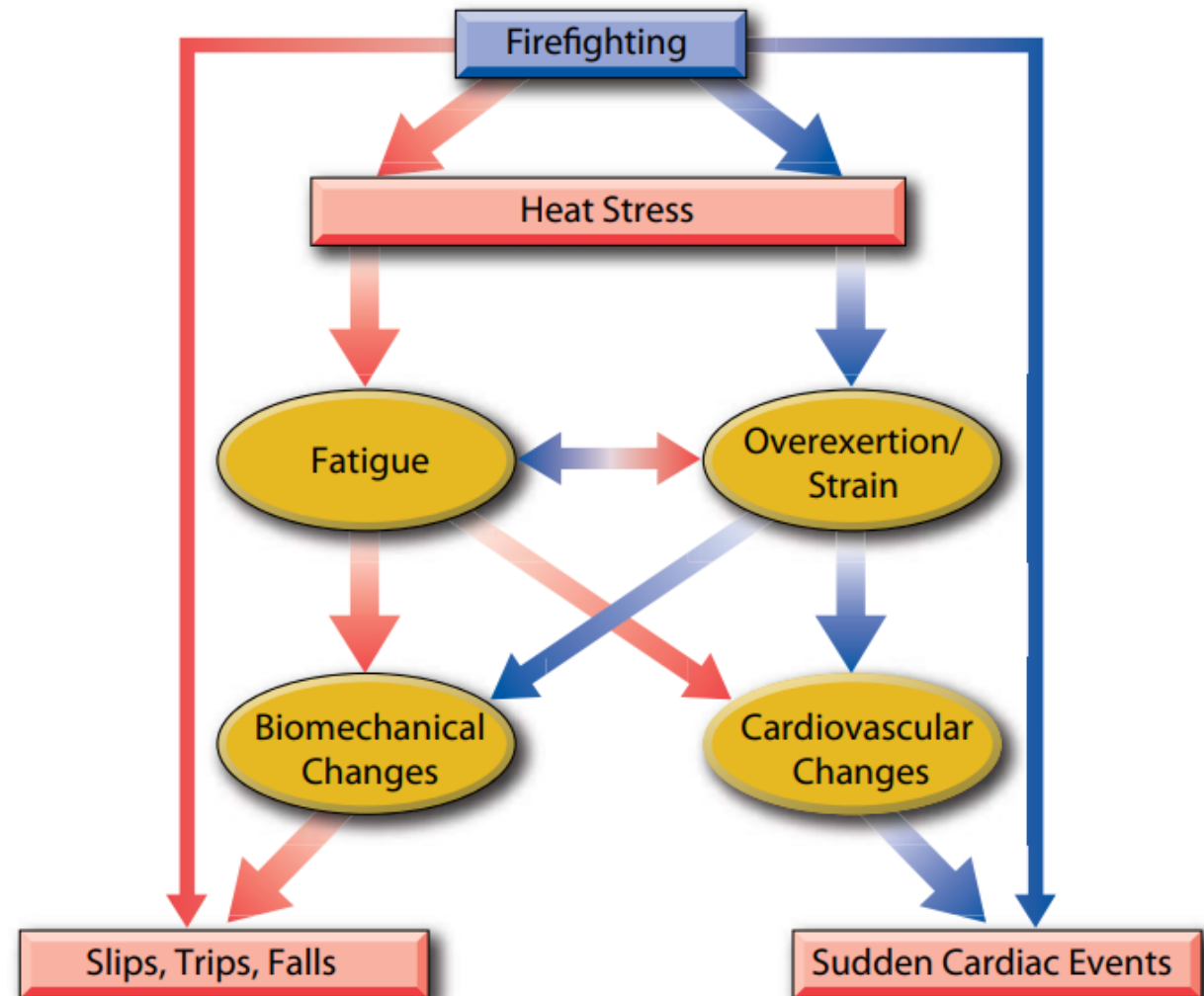
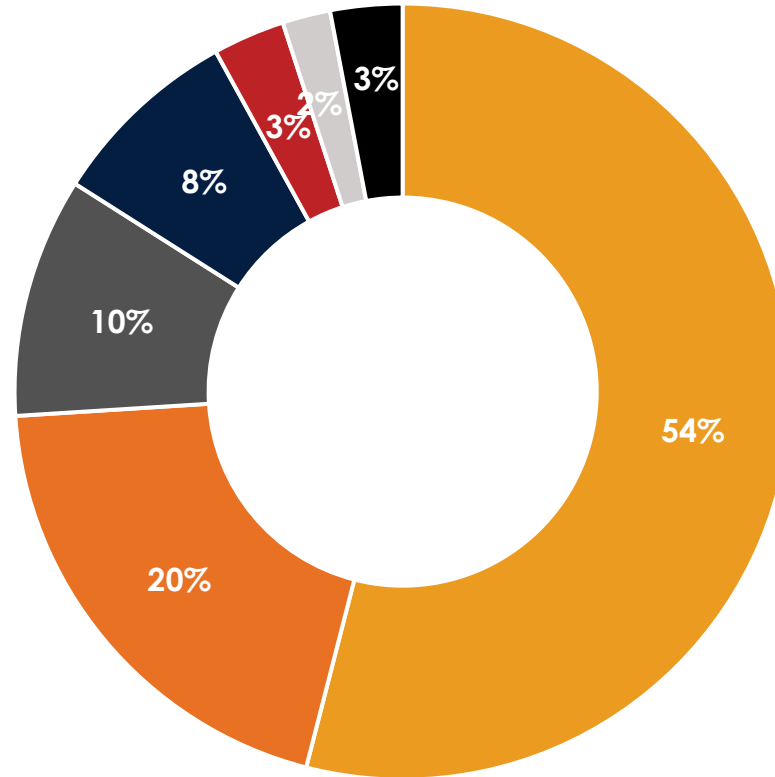


Figure 1.9. Model of the role of heat stress in contributing to firefighter injuries and fatalities.

HEAT STRESS

54% of LODDs are from Heat Stress



- Overexertion/Stress
- Crashes
- Caught, Trapped
- Struck by Falling Object
- Fall from Height
- Contact, Exposure
- Other

Source: [NFPA Fatal Firefighter Injuries in the United States](#) | Updated 6/23



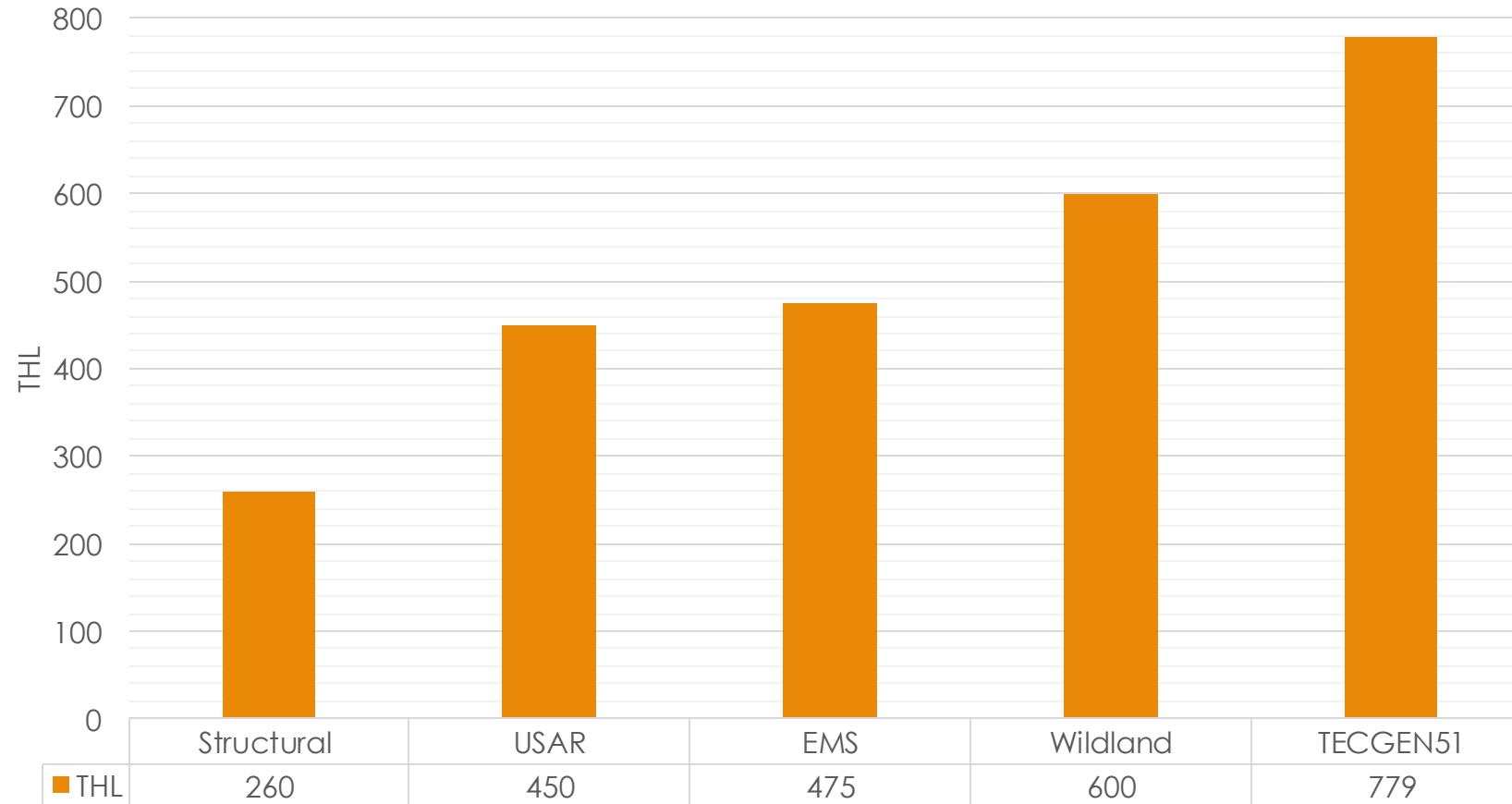
USES

Dual-certified to NFPA 1951 (Technical Rescue, Utility) and NFPA 1977 (Wildland Firefighting)

Perfect for:

- Flash Fires
- Missing Persons
- Rope Rescues
- Natural Disasters
- Confined Space
- Search & Rescue
- Electrical Emergencies
- Gas Leaks
- MVAs
- Civilian Assist

TYPICAL TOTAL HEAT LOSS VALUES



Total Heat Loss (THL) = how well heat and moisture vapor escape—an important factor in reducing heat stress

STANDARD & DELUXE OPTIONS



- 2 models to accommodate every budget and need
- Available in sizes S-7X
- Color options
 - Khaki, Black
 - Navy available in Deluxe
- Standard model available as coveralls

MANDARIN COLLAR

- Provides a comfortable, close fit
- Provides surrounding protection
- Secure tab closure with hook & loop fastener



STANDARD COAT FEATURES



Zipper Closure with
Hook & Loop Storm Flap
Closure

2" 3M Scotchlite™ Comfort Trim
NFPA configuration

¾ x 3.5" Utility Clip Left
Chest

8x3.5x3" Radio Pocket with Mic
Tab

7x7" Hand Pocket

STANDARD PANT FEATURES

- Comfortable fit and feel
- Available with belt loops, 4" take-up straps, and suspenders
- Belt loops to accommodate 2" belt & two 6 x 6.5 rear pockets
- 8.5 x 8.5" cargo pockets
- STEDSHIELD® FR-reinforced knee (optional)
- 2" 3M Scotchlite™ reflective comfort trim
- 15" oversized zippered leg opening



DELUXE COAT FEATURES

Available in 3 weeks!*



*3-week lead time may be affected by additional customizations

DELUXE PANT FEATURES

Available in 3 weeks!*

- Pass-through pockets
- Three-panel articulated knee
- Highest level of knee protection and enhanced padding with removable/replaceable closed-cell foam knee pad
- STEDSHIELD® FR-reinforced knee and cuffs
- STEDSHIELD® FR-reinforced cuff and inseam provides abrasion protection, water wicking integrity, superior durability, and allows for easy decontamination



FLEECE LINER



- Available with a fleece zip-in liner for cooler climates
- Made with 6.0 oz Nomex[®] fleece
- Easily removable
- Available in all TECGEN51 jacket configurations

COMPARATIVE FABRIC DATA

TEST	NFPA 1977-2011 SPEC	NFPA 1951-2013 SPEC	TECGEN 6.5OZ TWILL	SIGMA 7.5OZ TWILL	PBI TRIGUARD 590 5.3OZ 2X1 TWILL	100% NOMEX 7OZ TWILL
Radiant Protective Performance (RPP)	>= 7.0	N/A	15+	11.5	9.1	8
Thermal Protective Performance (TPP)	N/A	>= 10	15.6	12.2	13.3	14
Total Heat Loss	>= 450	>=650	779	752	735	680
Flame Resistance (After 100 Launderings)	< 4.0 inches	< 4.0 inches	< 0.5 inches	3.5 inches	1.0 inches	2.2 inches
Heat & Thermal Shrinkage	<= 10.0%	<= 10%	1.0% x 2.1%	6.5% x 4.5%	1.2% x 0.8%	1.5% x 2.0%
Tear Resistance	>= 5 lbs	>=6.75 lbs	32lbs	14 lbs	16 lbs	14 lbs
Cleaning Shrinkage	<= 5.0%	<= 5.0%	<1%	4.0% x 0.5%	<3%	<5%
Breaking Strength	N/A	>= 90 lbs	221 lbs	150 lbs	158 lbs	260 lbs

RESCUEPRO

THREE NFPA 1951 PRODUCTS

PACKAGE



THE RESCUEPRO PACKAGE

combines 3 alternative
PPE items—**saving you up
to 30% per firefighter!**



TECGEN51 MULTIPURPOSE PPE

Resilient and Breathable



This single-layer garment to reduce heat stress, fatigue, and the spread of harmful carcinogens.

DEX-RESCUE GLOVES

Dexterity and Utility



Extrication gloves that offer superior cut, abrasion, and puncture resistance to meet the demands of your job.

FDXL90 BOOTS

All-Day Comfort and Strength



The FDXL90 offers best-in-class breathability and flexibility during non-fire emergencies.



INTERCEPTOR

THREE SAFETY PRODUCTS

PACKAGE

THE INTERCEPTOR PACKAGE

combines 3 health-and-safety focused products—**saving you up to 30% per firefighter!**



ALTERNATIVE PPE

Reduce heat stress and the spread of contaminants with your choice of TECGEN51 Multipurpose PPE, EMS, or USAR gear.



PARTICULATE BLOCKING HOOD

Built with particulate blocking technology, our durable hoods reduce the absorption of harmful carcinogens into the highly permeable skin around your face and neck.



CUSTOM TURNOUTS

Customize our premium AeroFlex™ or FXR turnouts and get access to the lightest, most breathable gear on the market.

