



A NEW ERA

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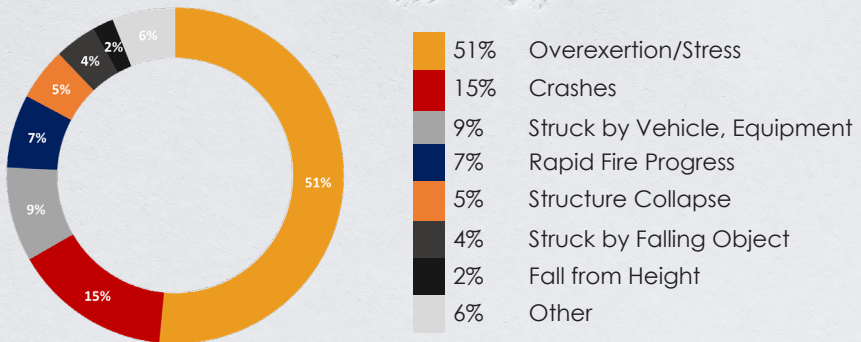
LODDS ARE FROM HEAT STRESS

A RISING EPIDEMIC

In the line of duty, your biggest danger is heat stress. As your core temperature rises, you lose the ability to concentrate, make sound decisions, and think critically. Today, heat stress contributes to over half of reported line of duty deaths.

When physical exertion leads to accumulation of heat and sweat, your body naturally cools down by allowing sweat to evaporate. Without an escape route for the sweat vapor, it stays trapped against your body.

At Fire-Dex, we've discovered that traditional gear fails to cool you down where you need it the most. That's why we developed AeroFlex™, a new era of turnout gear that supercharges the breathability of your garment and encourages airflow to reduce the risk of heat stress and cardiac-related issues.



NFPA LODD Statistics Firefighter Deaths by Cause of Injury, 2022

INTRODUCING... AEROFLEX™

BY Fire-Dex



VAPORLITE™ PANELS

We use a breathable and proprietary, 3-layer composite system that targets the areas of your body where heat becomes most encapsulated, the side seams, armpits, inner thighs, and behind the knees.

VaporLite™ Panels allow sweat to evaporate more efficiently than any garment available to the fire service today.

COOLS THE CORE OF ANY COMPOSITE

VaporLite™ Panels are built exclusively with our TECGEN71® outer shell, a CoreCXP™ 1-layer thermal liner, and your choice of moisture barrier.

TECGEN71® is the only outer shell that can be paired with a single-layer thermal liner thanks to its exceptional breathability and thermal protection, achieving industry-leading RET & THL performance. Choose any composite for the rest of the garment and allow these panels to cool the core.



RET

15-19

THL

340+

TPP

35+

AEROVENT™ TECHNOLOGY

The first of its kind, our AeroVent™ Technology utilizes a one-way street ventilation design that operates in conjunction with the pressure differential between the outer environment and the microclimate inside your gear, allowing sweat vapor to escape without letting heat inside.

AeroVent™ Technology enables you to better regulate your core body temperature, reducing the risk of heat stress and other cardiac-related issues.

Particulate-blocking technology in the vents act as a barrier against potentially harmful carcinogens.

The vents lie within the VaporLite™ Panels, with two positioned along the armpits and two placed on the inner thighs, to facilitate airflow and promote optimal cooling where it matters most.



By promoting airflow through dynamic movement, AeroVent™ Technology generates a constant cooling sensation. As the wearer becomes more active, increased air circulation within the garment results in a heightened cooling experience.

01 **2-PIECE COLLAR**

With a snap tab that ensures the zip-in liner hangs evenly

02 **OMNIDEX™ SHOULDER**

Seams align with the body's natural hinge points for optimal flexibility and minimal coat rise

03 **9" OF EASE**

At the chest for optimum amount of air gap to maximize THL & TPP per Florida State University testing

04 **VAPORLITE™ PANELS**

Breathable 3-layer composite panels running down the side seams and in the armpits allow sweat to evaporate more efficiently

05 **AEROVENT™ TECHNOLOGY**

Vents placed along the armpits facilitating airflow and promoting optimal cooling

06 **OPEN INSPECTION PORT**

Located along bottom hem

COAT FEATURES

PANT FEATURES

01 **OPEN INSPECTION PORT**

Located at the top of the waist

02 **VAPORLITE™ PANELS**

Breathable 3-layer composite panels located at inner thighs and behind knees allow sweat to evaporate more efficiently

03 **AEROVENT™ TECHNOLOGY**

Vents located at inner thighs facilitating airflow and promoting optimal cooling

04 **3D FLEX PANELS IN THE KNEES**

Allow for a free range of motion with hinge points incorporated into knee padding, ensuring optimal mobility and comfort

05 **OPTIMIZED LEG OPENING**

For ease of donning and doffing boots





FireDex
FIREDEX.COM/AEROFLEX

AeroFlex™ — a groundbreaking leap in firefighter comfort and safety