



GREEN CANYON

Scientific solutions for life

OIL & GAS • FS-03 FOAM

Fire suppressant technology for the oil & gas industry

The only endothermic foam on the market — engineered to survive extreme heat without breaking down.

ABOUT GREEN CANYON

A new class of fire suppressant, built on nitrogen chemistry

Green Canyon is an American company promoting investment in environmental safety technology. We have developed a proprietary family of fire suppressants based on nitrogen, using a patented endothermic reaction that reduces fire-zone temperatures from over **2,000°F to below 50–100°F** in seconds — creating a cold safety zone for crews and preserving the assets underneath.

The formulation is optimized to protect infrastructure and buildings, minimize collateral damage, and facilitate rescue operations in oil-fire scenarios — where crews face extraordinary temperatures and highly complex conditions.



Non-toxic



Biodegradable



PFAS-free



2,000°F → 50–100°F

Endothermic nitrogen reaction, in seconds

“There is no other product on the market with this combination of characteristics.”



Three suppressants, one technology platform



FS-01

Wildfire suppressant

Purpose-built for vegetation and wildland fires.



FS-02

Structural & industrial

Structural and industrial fire protection.



FEATURED

FS-03

Oil & gas foam

Purpose-built for petroleum and petrochemical fires.

NON-TOXIC · BIODEGRADABLE · FREE OF PFAS · NON-CORROSIVE

OIL & GAS INDUSTRY RISK

Fire is a permanent threat on every offshore asset

The oil business faces risks with fatal consequences every year. Due to the volatility of the product processed at these facilities, the risk of fire is a permanent, structural threat — not an edge case.

149

fires recorded in 2023 alone

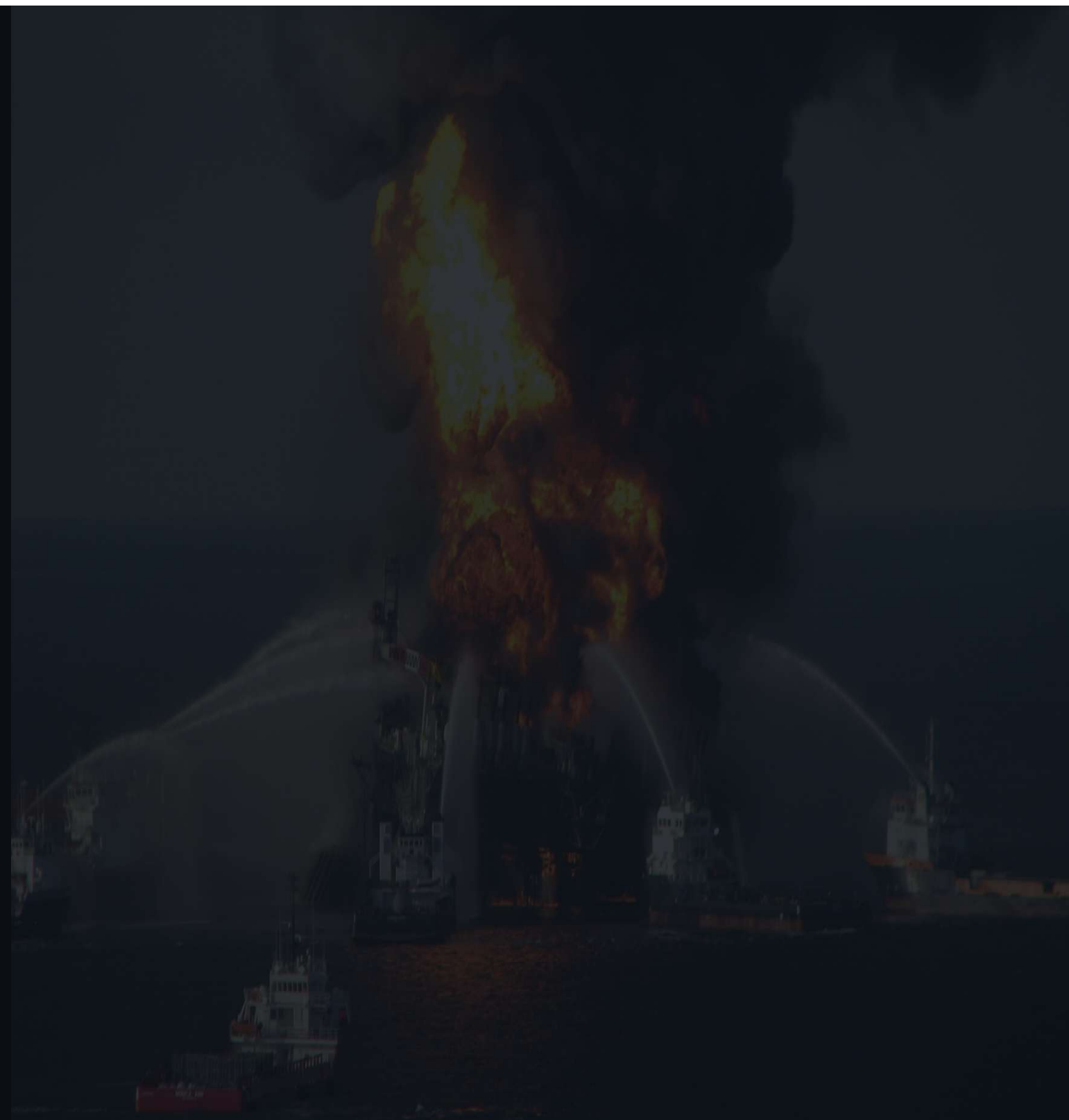
+94%

increase in fires, 2018 → 2023

203

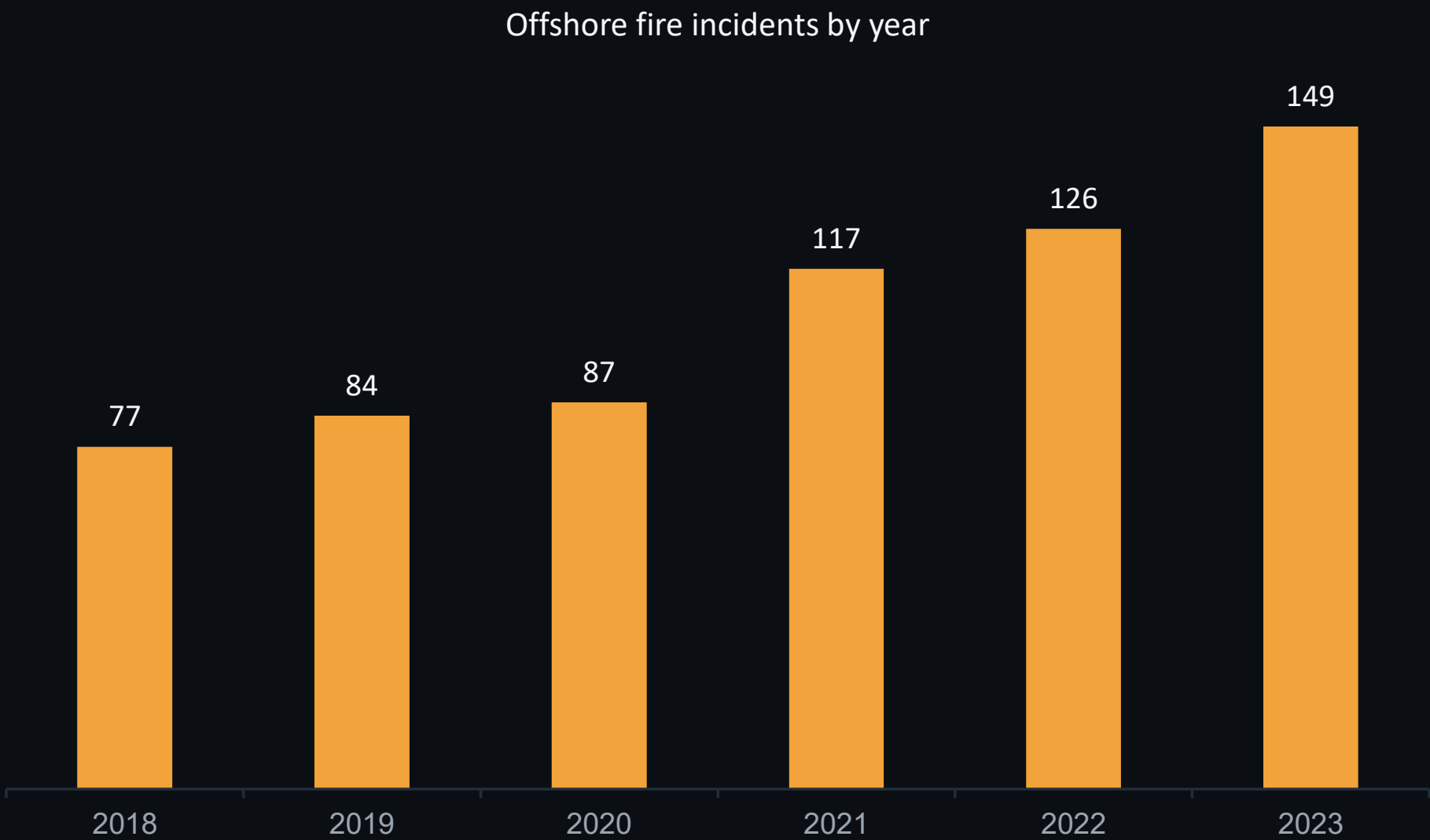
injuries reported in 2023

Source: U.S. Dept. of the Interior, offshore incident statistics 2018–2023



OFFSHORE INCIDENTS

Fires are trending up, year after year



Source: U.S. Department of the Interior

2018–2023 SNAPSHOT

16
total fatalities

1,119
total injuries

13
explosions

640
total fires



MARKET LANDSCAPE

Conventional foams were never built for this heat



A short usable life

Once the container is opened, some products remain usable for less than 30 minutes.



Air-heavy foam, short reach

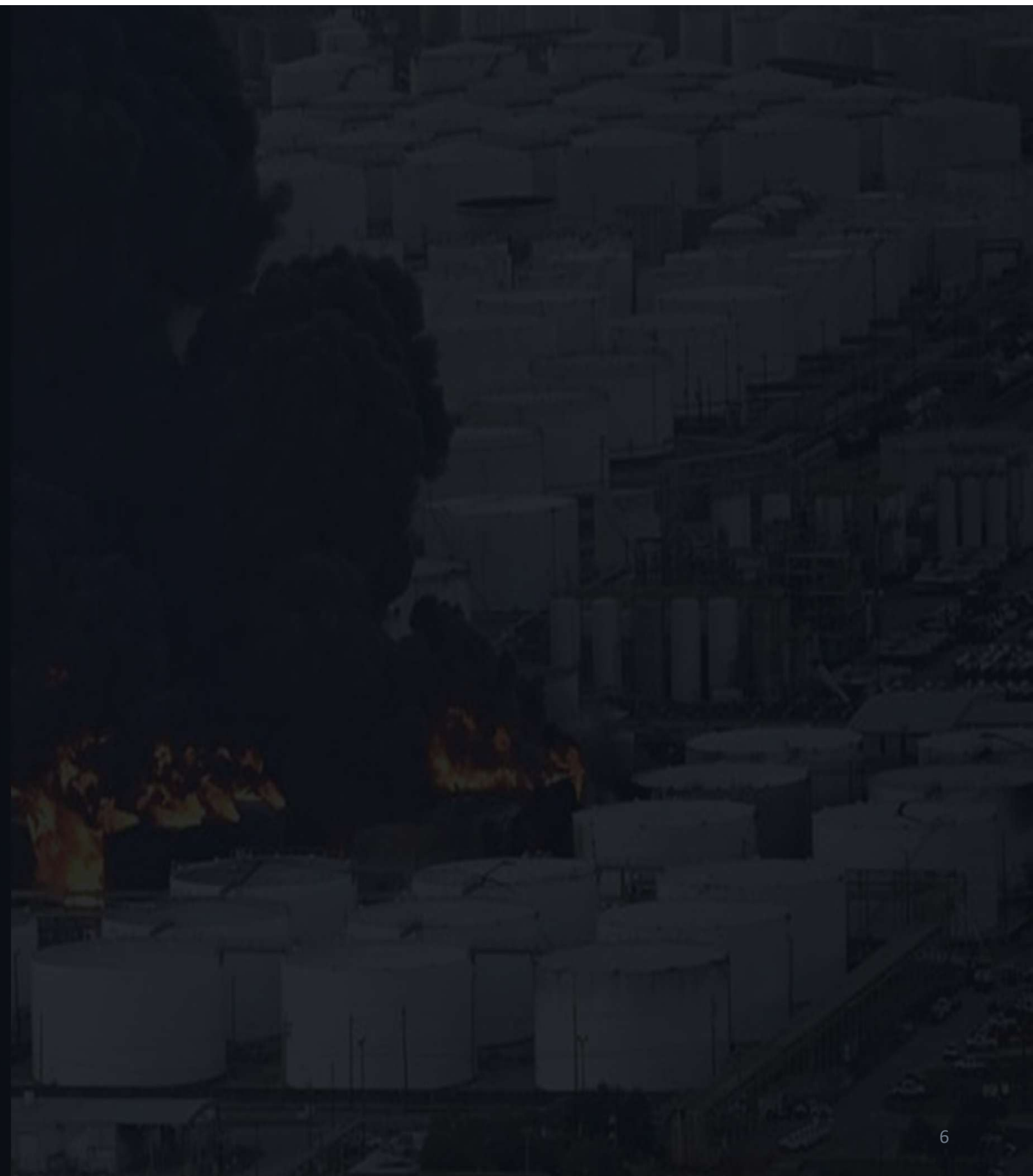
Foam that is mostly air can't be applied from a safe, long distance.



Heat beyond normal fire response

Petroleum combustion generates far greater heat than most other fire types, keeping crews from approaching safely.

As a result, extinguishing these incidents is extremely difficult — and the risk to personnel is very high.



WHAT MAKES FS-03 DIFFERENT

The only **endothermic foam** on the market

FS-03 carries a secret, patented formulation that, upon contact with the heat of the fire, undergoes an endothermic reaction — releasing massive cold in the form of nitrogen and drastically lowering the temperature of the affected area in seconds.



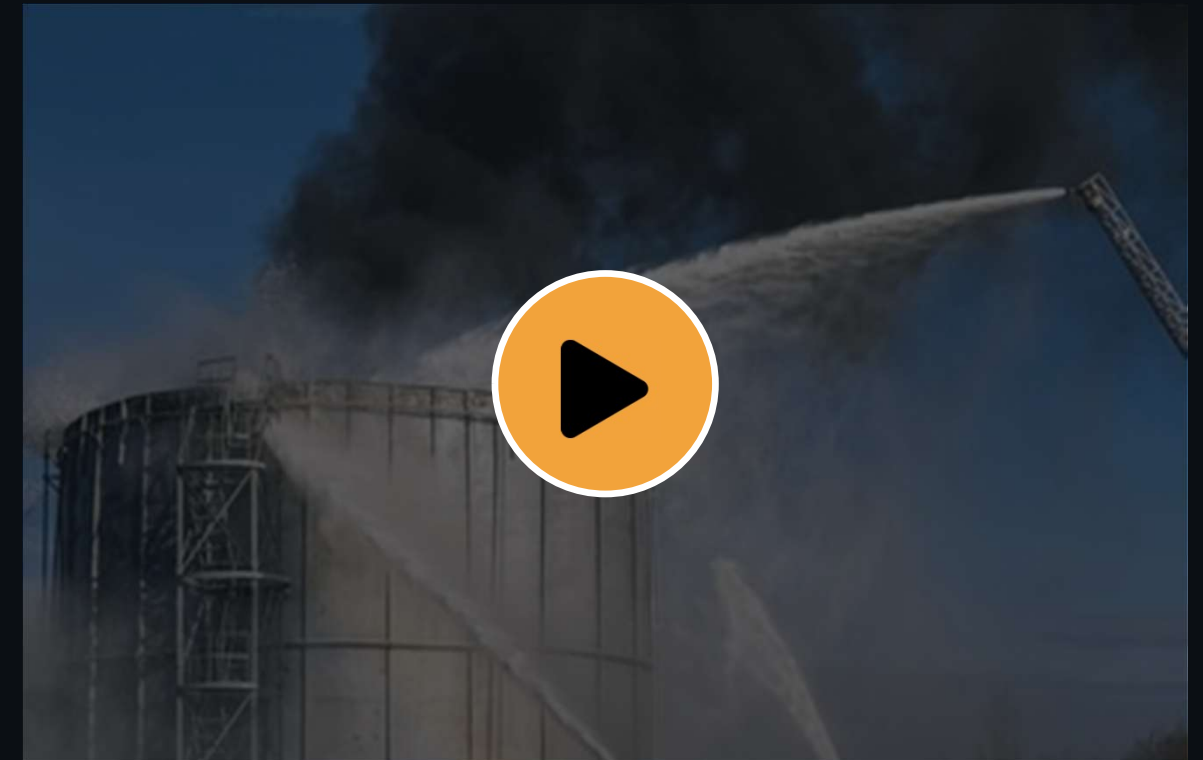
Resists degradation from the fire itself

Where conventional foams break down within minutes of contact with extreme heat, FS-03's formulation is built to hold up under fire — for as long as the incident demands.



Bubble structure blocks flame penetration

The bubble composition, surface tension and molecular structure make it virtually impossible for flames to penetrate the foam blanket, smothering the fire rapidly.



SEE IT IN ACTION

FS-03 foam withstands direct fire exposure without breaking down

[Watch the demonstration ▶](#)

HOW IT'S APPLIED

Responding to a storage-tank fire

The most common fire type at a refinery — a step-by-step protocol combining FS-02 and FS-03.

01

Cool the tank walls

Apply FS-02 around the exterior walls of the tank. On contact with the fire's heat, FS-02 triggers its endothermic reaction, releasing massive cold in the form of nitrogen and dropping the temperature from over 2,000°F to below 100°F.



02

Treat the interior

FS-02 is also applied inside the tank, extending the same rapid cooling effect to the source of combustion.



03

Blanket with FS-03 foam

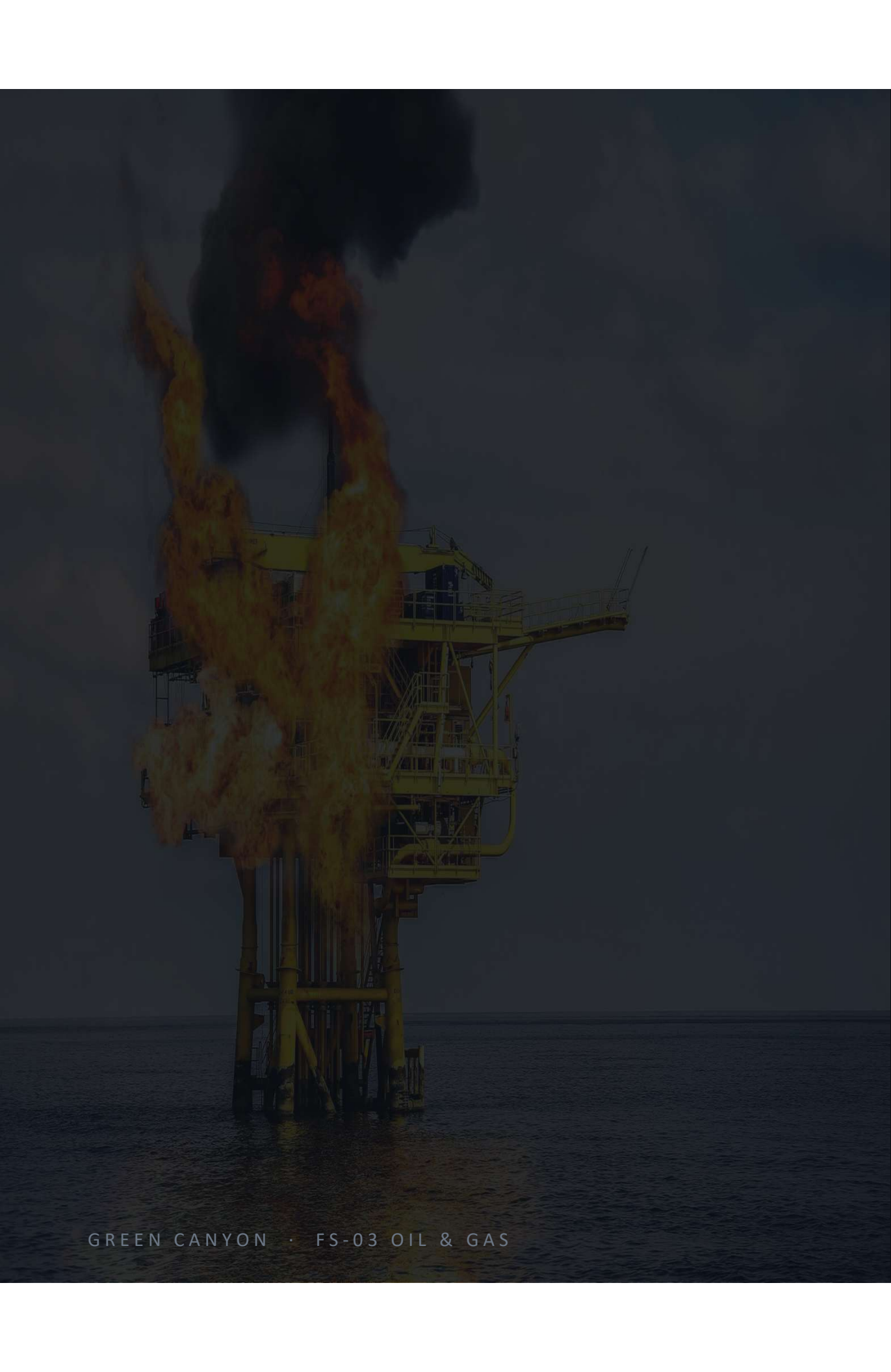
After FS-02 has been applied inside the tank, begin applying FS-03 Foam in combination with FS-02, smothering the fire and sealing off oxygen.



No equipment implementation required



Both FS-02 and FS-03 mix with seawater — offshore-rig ready



APPLICATION

Simple, ready-mix formulations

FS-02

Structural / cooling application

Water + 15% FS-02

FS-03 FOAM

Petrochemical fire application

Water + 15% FS-02 + 5% FS-03



No new hardware needed — compatible with existing firefighting equipment



Let's protect your assets

FS-03 Foam — the only endothermic foam on the market, built for the realities of oil & gas fire response.

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[Watch the FS-03 demonstration ▶](#)