

Stat-X[®]
Fire Suppression Systems

Rolling Stock Protection



THE RISK: Fires in Locomotives and Railroad Cars

Fire protection of railroads is critically important as the risk of a catastrophic fire to human life and property continues to be a major concern, both in the public sector and in private operations. Downtime and replacement costs of a damaged locomotive demand that a simple, stable, durable fire suppression solution be implemented. These fires are unpredictable and often difficult to avoid. In recent years, awareness of this issue has grown tremendously, and automatic fire suppression is more and more often required by regulation or strongly recommended as an economical and sensible solution.

Most rail fires occur in electric drives, diesel fuel and electric engine compartments, hybrid battery stations, hydraulics, electric control cabinets and braking mechanisms of the locomotive. Cylinder heads and oil filter chambers are especially at risk.

Fire protection of these areas is complicated by the limited space and the heavy wear and tear of these vehicles. The railroad environment is typically subject to constant vibrations, great changes in humidity and temperature, and dusty and dirt-filled tracks. All of these combine to make Stat-X® an ideal fire suppression solution for the rolling stock industry.

THE SOLUTION: Stat-X Fire Suppression

Advanced Technology

Stat-X highly-advanced fire suppression technology offers the most compact and economical fire extinguishing solution available for the Rolling Stock industry. A Stat-X unit consists of an extremely rugged, hermetically sealed, stainless steel canister containing a stable, solid compound. The canister is durable and non-pressurized, and is capable of withstanding harsh, corrosive environments. In the event of a fire, Stat-X units automatically release ultra-fine particles and propellant inert gases which quickly and effectively extinguish fires without depleting oxygen levels and with no negative impact on the environment.



Stat-X® extinguishing units are compact and modular

Versatile Applications

Stat-X units are available either as electrically activated units integrated with a variety of fire detection systems, or as thermally-activated units, requiring no external power source. Stat-X units are modular in size, capable of protecting all high-risk component areas of a locomotive, including engine compartments, oil filter chambers, cylinder heads, hybrid and conventional battery containers, hydraulics, and all electric control cabinets.

Highly Economical

Stat-X units have very little installation expense as no piping is needed and no pressure-relief systems are involved. The simple and robust design requires virtually no maintenance, thereby reducing ongoing operating costs. Further, discharge of the extinguishing agent causes no harmful byproducts, so in the event of a fire, downtime is kept to a minimum.



Stat-X

At-risk areas to be protected by Stat-X Fire Suppression Systems

- Engine
- Diesel fuel filter chamber
- Hydraulics
- Hybrid systems
- Electric control cabinets
- Braking mechanisms



Stat-X® Fire Suppression System protects the engine and alternator cabs and the oil filter compartment.

The Advantages

- Effective fire suppression
- 24/7 automatic protection
- Extended service life
- Ideal for harsh environments
- Rugged, sealed stainless steel construction
- Compact and modular design
- Many certifications, including MIL-STD-801G, see below
- Zero Global Warming Potential
- Zero Ozone Depletion Potential
- Non-toxic (when designed and operated to listing requirements)
- Easy retrofit option
- No maintenance required
- Low cost

Rolling Stock Stat-X Fire Suppression Applications:

- Tunnel Locomotives
- Standard Gauge Locomotives
- High-speed Trains
- Commuter and Metro Trains
- Subways
- Diesel, Electric, and Hybrid Trains

Stat-X® Fire Suppression Systems are suitable for a wide variety of rolling stock applications including the engine protection of the work trolleys shown here.



Stat-X Technology Protects Critical Infrastructure Worldwide

Today there are thousands of Stat-X installations protecting lives and property on six continents.



Approvals, Listings, and Certifications

The advanced technology used by Stat-X products is covered by NFPA® 2010 Standard for Fixed Aerosol Fire-Extinguishing Systems. Current approvals are shown below and more are pending. Contact your Stat-X representative for details, limitations, and the latest listings.



Committed to Quality and Technology

Stat-X® is manufactured by Fireaway Inc., an ISO 9001 certified company with USA manufacturing in Minnetonka, MN and Minden, LA. Application questions? Contact an authorized dealer or Fireaway direct.

www.statx.com
info@statx.com
952-935-9745

Authorized Distributor



5852 Baker Road
Minnetonka, MN 55345, U.S.A.

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