

MERSEN
Expertise, our source of energy

NON-INDICATING
LOW AND MEDIUM
VOLTAGE FUSES
FOR USE IN
HAZARDOUS
LOCATIONS



WHAT ARE CLASS 1 DIV 2 HAZARDOUS LOCATIONS?



Class 1 Div 2 hazardous locations are defined as locations in which flammable vapors or gases may be present. These gases may be in normally closed systems but also in systems where vapors can escape accidentally or be present but exhausted by ventilation. Electrical codes and standards strictly define the product requirements for such applications to ensure industrial and occupational safety.

NATIONAL ELECTRICAL CODE® (NEC)

NEC section 501.115 (B) (3) and CEC article 18-150 references use of “non-indicating, filled, current-limiting” fuses in Class I Div 2 hazardous locations.

Only certain fuse types are permitted to be used in the general purpose enclosures for class 1 Div 2 applications.

Fuses installed in general purpose enclosures must meet one of the following criteria:

- Fuses must be non-indicating, filled and current limiting type
- Or fuses in which element is immersed in oil or other approved liquid
- Or the element is hermetically sealed against gases and vapors

Mersen offers only the non-indicating, filled, current limiting fuses and is suitable for applications such as protection of motors, appliances, lamps, meters, instruments, etc., in Class I Div 2 environment.

Mersen offers a wide range of fuses specifically designed to be suitable for Class I Div 2 locations.

WHICH INDUSTRIES PRODUCE HAZARDOUS ENVIRONMENTS?

Class I Div 2 locations are included but not limited to:

- Chemical plants
- Oil and gas plants
- Refineries
- Paint shops
- Cleaning facilities
- Loading facilities for flammable substances
- Utility gas or LP plants
- Spray finishing areas
- Aircraft hangers or gasoline storage and dispensing areas

*As per the NEC, the **class** represents the type of flammable material, whereas the **division** represents the conditions where the flammable materials as used or stored and the likelihood of the flammable material being present*

MERSEN NON-INDICATING FUSES FOR CLASS 1 DIV 2 LOCATIONS

Mersen is increasing its already wide range of non-indicating fuses specifically designed for suitability in Class 1 Division 2 locations. These fuses meet the requirements defined in the National Electrical Code (NEC) for hazardous locations. Contact your local Mersen sales representative for details.

- Class CC Fuses: ATDR $\frac{1}{4}$ - ATDR30A; ATMR $\frac{1}{2}$ - ATMR30
- Class J Fuses: AJT1 - AJT7; AJT8N - AJT600N; HSJ1 - HSJ600
- Class RK1: A2D $\frac{1}{10}$ R - A2D7R; A2K1R - A2K600R; A6D1/10R - A6D7R; A6K1R - A6K600R
- Class RK5: TR $\frac{1}{10}$ R - TR600R; TRS $\frac{1}{10}$ R - TRS600R
- Class T Fuses: A6T1 - A6T800; A3T1 - A3T1200
- Class G Fuses: AG3 - AG60
- Class L Fuses: A4BQ100 - A4BQ6000; A4BT200 - A4BT2000; A4BY200 - A4BY6000
- MV Gen. Purpose E-Rated Fuses: 5.5kV 9F62-CJ Series 25E-300E, 38kV 9F60-PT, 1E-80E
- MV Motor Protection Fuses: 2.5kV 9F60-CL Series, 2R-24R and 5.1kV 9F60-JN Series 2R-24R

9F62 SERIES MEDIUM VOLTAGE FUSES

Mersen's reliable 9F62 series medium voltage fuses is non-indicating, sand filled, and current limiting.

- 5.5kV General Purpose Fuses - 9F62 Series, EJO-1 - UL Listed
- 12" (305mm) Clip Centers - Suitable for use indoors or outdoors
- Non-indicating for application in Class 1, Division 2 locations per NEC 501.115(B)(3)



NON-INDICATING AJT CLASS J FUSES

Mersen's Class J Time Delay fuse series is now offered in a full range of ampere ratings between 1-600A in both indicating and non-indicating categories. The non-indicating Class J offers same reliability and performance as the globally popular Mersen Class J Time Delay fuse with SmartSpot[®] indication to customers and applications not requiring similar fuses with indication.





MERSEN IS A GLOBAL EXPERT
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