

LPG Inert® IG-541

- Natural gas present in the atmosphere
- Design in compliance with ISO 14520, NFPA 2001 and CEA 4008
- Suitable for occupied areas
- Electrically non-conductive
- No residue to clean up after the discharge
- More economical and less storage space
- Zero Ozone Depletion Potential
- No greenhouse effect
- No decomposition products

LPG INERT®IG-541 is a mixture with 52%NITROGEN (IG-100), 40% ARGON (IG-01) and with 8%CARBON DIOXIDE (CO2). It is an inert gas, non-conductive, colourless, odourless and flavourless. It is non corrosive and may be used at normal temperatures with such materials as nickel, steel, stainless steel, copper, brass, bronze and plastics.

Perfect dielectric and appropriate for the protection of all the electric and electronic materials.

Discharge is through valves fully developed by LPG approved by the most renowned independent organizations. They offer a great flexible adaptability for all actuation and release systems currently used in the market, even allowing combinations of several of them.

The design of the system protects against accidental actuation due to any small leak. They also allow checking and maintenance of all critical elements contained in a fixed extinguishing system, at the time of commissioning and later for system preventive maintenance, thus preventing the risk of accidental discharge. As a general rule, extinguishing concentration is achieved when oxygen contents in the air is reduced from its usual level of 20,9% to values lower than 15% depending on the combustible products.



The natural extinguishing agent



VdS

VdS
Schadenverthutung
Vertrauen durch Sicherheit



Agencia Protección Contra
Incendios
Ministerio del Interior



Centre National
de Prevention et Protetion



VNIPO
Russian Certification Body



Loss Prevention
Certification Board



LPG INERT® IG-541 is stored in high-pressure cylinders in the form of compressed gas, thus space required for such cylinder storage depends on pressure and capacity.

IG-541 fire extinguishing systems are designed for a cylinder filling pressure of 150/200/300 bar. **LPG** uses cylinder of 80 lt. and 140 lt. capacity, thereby optimizing in space and cost.

LPG INERT® IG-541 systems can be modular or centralized (single or double row). The system with manual or automatic release includes π (PI) certified bottles, equipped with a pressure gauge valves.

LPG INERT® IG-541 is safe for use in occupied areas and excellent visibility is maintained during discharge. Ideal for the protection of archives, museums, libraries and any other hazard including valuable or unique property. Likewise it is suitable for the protection of computer rooms, telephone exchange equipment and any other electrical installation that may present a fire hazard.

Physical Properties

Chemical name:	Nitrogen/Argon/Carbon Dioxide
Chemical formula :	$N_2/Ar/CO_2$
Denomination according to ISO 14520 and NFPA 2001:	IG-541
Molecular weight :	34.00
Boiling point at 1.013 bar:	-196° C
Maximum filling pressure:	150/200/300 bar
Design concentration for heptane:	41.2%
Flooding factor for heptane at 20° C :	0.531 m ³ /m ³
Design concentration for class A fires (NFPA):	36.8%
Flooding factor for class A fires (NFPA):	0.451 m ³ /m ³
NOAEL:	43%
LOAEL:	52%
Maximum concentration in a 5' exposure:	43%
Ozone depletion potential :	0
Greenhouse effect potential :	0

HEADQUARTERS

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