

## IG541 Argon Nitrogen CO<sub>2</sub> Gas



Extinguishant IG-541 is a colourless, odourless, electrically non-conductive gas with a density approximately the same as that of air. It is an inert gas mixture consisting nominally of 52% nitrogen, 40% argon and 8% carbon dioxide, with the following mixture specification (based on 8% carbon dioxide with tolerance of 3.5%).

- a) Carbon dioxide: range of 7,6 % to 8,4%R
- b) Argon: Range of 37,2% to 42,8%
- c) Nitrogen: Range of 48,8% to 55,2%

## Features

IG-541 extinguishes fires mainly by a reduction of the oxygen concentration in the atmosphere of the hazard enclosure.

In order to get the amount of gas needed to effectively protect a risk we will use 39,9% design concentration for both fires class A and class A higher (according to ISO14520-15). This design concentration means a flooding factor (FF) of 0.348 m<sup>3</sup>/m<sup>3</sup> (m<sup>2</sup> of IG-541 for every m<sup>3</sup> of risk).

**IG-55** fire extinguishing systems are designed for a cylinder filling pressure of 200/300 bar. We use cylinders of 80 lt. and 140 lt. capacity, thereby, optimizing in space and cost.

Discharge is through valves fully developed and 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.

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.

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.

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