

Types of Fluorocarbon-Free Air Dusters• • •

The types of fluorocarbon-free air duster available can be categorized into 1) Aerosol cans with mix of Dimethyl Ether(DME) and Carbon Dioxide (CO₂) gas, and 2) High pressure gas cylinders with Carbon Dioxide (CO₂). The switch to fluorocarbon-free products was difficult due to the necessary measures addressing the inflammability, high pressure and explosibility, but recently these points have been improved, and fluorocarbon-free air dusters are proactively being introduced in accordance with policies such as the Green Purchasing Law.

The features of fluorocarbon-free air dusters are as following.

1) DME/CO₂ mix gas type

- Ozone Depleting Potential: 0, Global Warming Potential: <1
- Comparable price to previous products
- To reduce risk of inflammation, a special absorbent is used in the can to prevent the injection of liquefied gas, which mixes DME with the CO₂ when sprayed.

2) CO₂ Type (high pressure gas cylinder type)

- Ozone Depleting Potential: 0, Global Warming Potential: 1
- No risk of inflammation
- Since the gas is at high pressure, a high pressure gas cylinder equipped with an automatic leakage device for high temperature situations is used
- Contents less than 100ml, which is exempted from the High Pressure Safety Law
- Gas cylinders can be replaced and reused

Gas	DME/CO ₂ mix gas	CO ₂	
Container type	Aerosol 2 piece can	High pressure gas cylinder	
		Cartridge style with replaceable cylinder	Used containers can be collected and reused
Contents	350ml	Less than 100ml (Exempted from the High Pressure Safety Law)	
Can weight (excluding gas)	200~250g	400~450g	250~300g
Measures against inflammation	Prevent inflammation by preventing injection of liquefied gas	No flammability, no risk of inflammation	
Measures against explosion, high pressure	Extra measures not necessary as the pressure is comparable to fluorocarbon products	High pressure, designed to allow automatic leakage from valve and cylinder at high temperatures. Have thick sides	
Sales price	Comparable price to fluorocarbon-based products	2-3 times price of fluorocarbon-based products	

※Fluorocarbon-free air dusters use inflammable and high pressure gases.
It is important to carefully read and follow the safety directions.