

# Ozone Destruct Catalyst



Ozone Destruct Catalyst is used to safely revert ozone gas to oxygen catalytically. The Ozone Destruct Catalyst is designed for use in process gas applications where excess ozone gas must be safely reverted to oxygen prior to discharge. There are no consumables, the ozone destruction process requires no additional energy or chemicals to safely revert ozone to oxygen reliably.

The Ozone Destruct Catalyst is sold as a granular material that must be housed in a vessel that forces air containing ozone to pass through the catalyst material. As ozone is reverted to oxygen some heat will be generated in the process

## SPECIFICATIONS

Shape	Mesh	Formula	Bulk Density	Surface Area	Appearance
Granule	4-8 mesh	Manganese dioxide/ copper oxide catalyst	0.7 ( $\pm 0.05$ ) g/cc	160-240 m <sup>2</sup> /g	Black/dark brown

## OPERATING CONDITIONS

- Humidity: The gas should be preheated when the relative humidity is higher than 80%
- Temperature: 0-500°C
- Space Velocity:  $\leq 10,000 \text{ hr}^{-1}$  (sometimes higher)
- Linear Velocity:  $\leq 1 \text{ m/sec}$  (sometimes higher)
- Weight Loss:  $\leq 1\%$

## APPLICATIONS

- High concentration of ozone in the process of semiconductor and integrated circuit production
- Ozone from sewage treatment
- Ozone emissions from drinking water treatment
- Disinfection and purification of ozone tail gas in equipment using ozone
- Ozone produced by office equipment such as printers
- Ozone produced factories
- Ozone analysis instrument zero-point calibration, ozone tail gas
- Any other application with ozone emissions

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