



CARULITE® 200 GRANULAR CATALYST DATA SHEET

CARULITE® 200 catalyst is used to effectively destroy ozone emitted from various off-gas emissions, converting toxic ozone to oxygen.

PARTICLE SIZES AVAILABLE

- 4 x 8 mesh granular (4.8 mm x 2.4 mm)
- 8 x 14 mesh granular (2.4 mm x 1.4 mm)

CHEMICAL/PHYSICAL DATA

Formula	Manganese dioxide/copper oxide catalyst
Appearance	Black/dark brown granular
Bulk Density	0.72-0.92 g/cc
Surface Area	≥ 200 m ² /g
Weight Loss	< 1%

RECOMMENDED OPERATING CONDITIONS

- Vertically-oriented vessel with top-down air flow
- All materials of construction of an ozone destruct system must be compatible with ozone.
- ≤ 5,000 hr⁻¹ Gas Hourly Space Velocity
- ≥ 0.66 m/sec (2.2 ft/sec) Linear Velocity
- In humid applications pre-heat the air prior to the catalyst bed ~9° C (15° F) above ambient temperature to prevent condensation of moisture on the surface of the catalyst.

CATALYST POISONS

Minimize or avoid contact with: sulfur compounds, halogenated compounds, hydrocarbons, heavy metals, NO_x, and silica.

APPLICATIONS

- Potable water off-gas
- Wastewater off-gas
- Corona treater emissions
- Office equipment emissions
- Chemical processing emissions

SHIPPING CONTAINERS

The CARULITE 200 catalyst is shipped in 20 kg net weight steel pails.

HANDLING, STORAGE, & INCOMPATIBILITY

The CARULITE 200 catalyst is a manganese based catalyst that should be handled in accordance with the recommendations provided in the Safety Data Sheet (SDS). The proper protective equipment (PPE) should be worn, including gloves, eye protection and respiratory protection. Consult the SDS for the latest information on the recommended PPE.

Product should be stored in a cool, dry area in a closed container. Segregate from incompatible materials which may include combustible materials, oxidizers, organic materials, reducing agents, halogenated compounds, strong acids and aluminum. Protect container against physical damage. Spillage should be collected and disposed of properly.

DISPOSAL

Unused CARULITE 200 catalyst is not considered a hazardous waste under U.S. 40 CFR 261. Dispose of used CARULITE 200 catalyst in a landfill approved to accept chemical waste, after verifying that it is not contaminated with hazardous substances through usage.

SHIPPING

CARULITE 200 catalyst is not regulated by the US DOT. CARULITE 200 Catalyst is shipped domestically as a Class 55 and internationally as HTS Code 3815.90.3000.

Proper Shipping Name: Manganese Dioxide Compound



CARUS VALUE ADDED

TECHNICAL SUPPORT

With our CARULITE® catalysts, we provide technical support on how to select the proper catalyst and how to properly use the catalyst to obtain optimal results. We also provide laboratory testing of customer catalyst samples in appropriate cases.

CARUS

During its more than 100 year history, Carus' ongoing emphasis on research and development, technical support, and customer service has enabled the company to become the world leader in permanganate, manganese, oxidation, and base-metal catalyst technologies.



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Driving Safety & Sustainability

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