CARUS AIR



CARULITE® 300 GRANULAR CATALYST

FACT SHEET

CARULITE® 300 catalyst is used to effectively destroy carbon monoxide in compressed breathing air, respirators, escape masks, and in cryogenic gas purification.

PARTICLE SIZES AVAILABLE

4 x 8 mesh granular (4.8 mm x 2.4 mm)
6 x 12 mesh granular (3.35 mm x 1.7 mm)
8 x 14 mesh granular (2.4 mm x 1.4 mm)
10 x 16 mesh granular (2 mm x 1.2 mm)
12 x 20 mesh granular (1.7 mm x 0.8 mm)

CHEMICAL/PHYSICAL DATA

Formula	Manganese dioxide/copper oxide catalyst
Appearance	Black/dark brown granular
Bulk Density	0.72-1.0 g/cc
Surface Area	≥ 200 m^2/g
Weight Loss	< 1%

SUGGESTED OPERATING CONDITIONS

- Moisture free air (-40° C dew point)
- Vertically-oriented vessel with top-down air flow
- ≤ 15,000 hr^{-1} Gas Hourly Space Velocity

APPLICATIONS

Compressed breathing air purification
Escape masks
Respirators
Cyrogenic gas purification

CATALYST POISONS

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

SHIPPING CONTAINERS

Dependent upon the mesh size required, the CARULITE 300 catalyst is shipped in 20 kg net weight pails or in 114 kg or 136 kg net weight drums.

HANDLING, STORAGE, AND INCOMPATIBILITY

Although CARULITE 300 catalyst is not a hazardous substance, it should be handled with care. Protective equipment in handling should include safety glasses or goggles and rubber or plastic gloves. In cases where high dust exposure may exist, the use of NIOSH-MSHA dust respirator or an air-supplied respirator is advised.

The product should be stored in a cool, dry area in a closed container. Segregate from easily-oxidizable materials, peroxides, chlorates, and acids. Protect container against physical damage. Spillage should be collected and disposed of properly.

DISPOSAL

Unused CARULITE 300 catalyst is not considered a hazardous waste under U.S. 40 CFR 261. Dispose of used CARULITE 300 catalyst in a landfill approved to accept chemical waste, after verifying that it is not contaminated with hazardous substances through usage.

SHIPPING

CARULITE 300 catalyst is not regulated by the U.S. DOT. CARULITE 300 catalyst is shipped domestically as Class 85 and internationally as HTS Code 3815.90.3000.

Proper Shipping Name: Manganese Dioxide Compound

CARUS VALUE ADDED

LABORATORY SUPPORT

Carus has technical assistance available to its potential and current customers to answer questions, evaluate applications alternatives or perform laboratory testing. Our laboratory capabilities include: catalyst analysis, performance testing, process evaluations, and analytical services.

TECHNICAL SERVICES

As an integral part of our technical support, Carus provides in-house and on-site assistance. We offer full application services, including technical expertise, design recommendations, and follow-up support.

CARUS

For over 100 years, our dedication to research and development, technical support, and customer service has enabled Carus to become the world leader in permanganate, manganese, and catalyst oxidation technologies. Call Carus for assistance with specific applications.

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