
BASF Catalysts

Technical Bulletin

R 0-25 for Catalytic Oxidation Reactions

Catalyst Data Sheet

BASF Catalyst R 0-25 is designed primarily for catalytic incineration of VOC's (Volatile Organic Compounds). A wide range of organic compounds, in concentrations from below 1 mg up to about 20 mg per standard liter, can be destroyed using R 0-25.

Catalyst R 0-25 can also be used as a Deoxo Catalyst, for removal of O₂ and/or H₂ from gas streams, with H₂O and/or CO₂ formed as byproduct.

An outstanding characteristic of R 0-25 is its high thermal stability imparted by the refractory alumina support.

Composition: Pd on a special Al₂O₃ carrier, with standard & custom Pd-loadings

Standard Pd-loadings: BASF R 0-25/15 - 0.15 wt% Pd

BASF R 0-25/30 - 0.30 wt% Pd

BASF R 0-25/50 - 0.50 wt% Pd

Standard Form: Extrudates, 6 mm diameter

Typical Mechanical Properties:

Bulk Density: approx. 950 kg/m³ (59 lb/ft³)

Crush Strength: Knife Edge Hardness, > 6 kg (13 lb)

Operating Temperature: up to 600°C (1100°F)

Lifetime: Five to ten years or more, provided poisons such as chlorides, sulfur and arsenic are not present in significant amounts.

Regeneration: Regeneration is not required.

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