
BASF Catalysts

Technical Bulletin

R 0-20 for Deoxo and Gas Purification Reactions

Catalyst Data Sheet

BASF Catalyst R 0-20 is a robust and versatile noble metal catalyst comprised of palladium on an alumina carrier. R 0-20 is primarily a "Deoxo Catalyst" designed for removal of O₂ and/or H₂ from gas streams (with H₂O formed as a byproduct).

Applications include the purification of nitrogen, argon and CO₂; the manufacture of ultra-pure hydrogen; the catalytic incineration of combustible compounds (e.g. VOC's) for offgas or product purification, and the hydrogenation of olefins.

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

Standard Pd-loadings:	BASF R 0-20/13 - 0.13 wt% Pd
	BASF R 0-20/25 - 0.25 wt% Pd
	BASF R 0-20/47 - 0.47 wt% Pd

Form: Spheres, 2-4 mm diameter

Typical Mechanical Properties:

Bulk Density: approx. 750 kg/m³ (47 lb/ft³)

Crush Strength: Knife Edge Hardness, > 5 kg (11 lb)

Operating Temperature: 0 to 600 °C (32 to 1100 °F)

Lifetime: Five to ten years or more, provided poisons such as sulfur and arsenic are not present, and depending on operating conditions.

Regeneration: Regeneration is not required.

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