Technical data sheet

Noblyst® P1145

Palladium on Activated Carbon Powder Catalyst

Noblyst® P1145 5% Pd is a palladium on activated carbon catalyst for batch and continuous batch processes.

This catalyst shows superior catalytic performance along with excellent filtration properties. It can be produced at any one of our five production sites globally.

Applications:

- Hydrogenation processes
- Hydrogenation of Nitro Groups, such as:
  - Hydrogenation of Aliphatic Nitro Groups
- Hydrogenolysis Reactions, such as:
  - Removal of the Cbz (Z) protection group
  - Rosenmund Reduction
  - Hydrodehalogenation of Aliphatics
  - Hydrodehalogenation of Aromatics
- Reductive Alkylation and Amination, such as:
  - Aldehydes and Ketones to Primary Amines
  - Aldehydes and Ketones to Secondary Amines
- Dehydrogenations and Oxidations, such as:
  - Dehydrogenation of Carbocyclic Rings to Aromatics

These reactions represent only some examples of the numerous applications this versatile catalyst can support.

Physical-Chemical Properties

Properties	Unit	Value
Appearance	-	Black, very fine powder
Palladium content	wt. %	5
Water content	wt. %	50
Support	-	Activated Carbon

Packaging

- Nobylst® P1145 5% Pd is delivered as a water wet free flowing powder in 210 liter (55 gallon) steel drums with polyethylene bag liners.
- For large volumes special packaging is available upon request.

Storage

- Drums should be protected from freezing, not exposed to direct sunlight and stored in a dry place between 5 and 30°C (40 to 83°F).

Activation
Not required.

Precious metal full service loop
Evonik provides the full precious metal service loop including:

- Precious metal sales and purchasing
- Refining services
- Leasing and financing
- Related services, e.g. swaps, transfers, logistical assistance

Additional services
Depending on the business model, Evonik may provide the following additional services:

- Technical support around the globe including handling recommendations, safety data sheets, literature, samples, etc.
- High-throughput screening for rapid identification of the most suitable catalysts for your applications
- Development of tailor-made catalysts in the context of an exclusive project

Evonik Industries has been a leader in chemical catalysts for more than 75 years. Now as before, customers all over the world rely on Evonik as a competent and trusted partner. Today Evonik is a fully integrated partner in catalysis, featuring homogeneous and heterogeneous catalysis. This makes Evonik unique, and gives our customers the flexibility of finding the most cost efficient solution for their needs. Working with Evonik means having direct access to our regional technical and commercial organization. With a passion for the catalyst business our experienced teams strive for quick response times and high quality tailored solutions to your catalyst topic.

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