

Metalyst® MC 507

Activated Nickel Powder Catalyst

Metalyst® MC 507 is an activated nickel powder catalyst for slurry processes doped with chromium.

This catalyst is used in liquid phase reactions operated as batch, semi-batch or continuous process. This product is suitable for stirred tank reactors and loop reactors with most of the applications being hydrogenation reactions.

Applications:

- Dinitrotoluene (DNT) to diaminotoluene (TDA)
- Aromatic Nitro Groups to Aromatic Amines

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 slurry
Ni content	wt. %	94
pH value	-	< 11
D50 Particle Size	µm	23
Promoter	-	Cr

Packaging

- Metalyst® MC 507 is delivered as a slurry in 60 liter steel drums.
- 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.

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.
- 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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