

# 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

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