

# Metalyst® MC 111

## Activated Nickel Powder Catalyst

Metalyst®MC 111 is an activated nickel powder catalyst for slurry processes.

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:

- Hydrogenation of Olefins to Alkanes
- Hydrogenation of Nitriles to the corresponding Amines
- Hydrogenation of Carbonyl Groups to the corresponding Alcohols

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. % | 93                             |
| pH value          | -     | < 11                           |
| D50 Particle Size | µm    | 28                             |
| Promoters         | -     | none                           |

### Packaging

- Metalyst® MC 111 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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