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Product Data Sheet

Actimet™ 8040P

Activated Skeletal Nickel Catalyst

Description

BASF's Actimet catalysts are produced by dissolving the inactive components from mixed metal alloys, according to a process of the type developed by Raney. The properties of the skeletal metal catalyst are determined by the choice of metals, the leaching and washing procedures as well as the presence of promoters.

BASF has the capability to produce a wide range of different customized skeletal metal catalysts. Samples are available for immediate shipping.

BASF's Actimet 8040P is a skeletal nickel catalyst promoted with molybdenum and used in a wide variety of hydrogenation reactions. The catalyst is highly accessible with excellent settling properties and is active at low temperatures (20–100°C).

BASF Actimet 8040P is supplied immersed in water to protect it from air oxidation. In a dry state, it is pyrophoric.

Availability

Research quantities are available by order through Strem Chemicals, Inc. on the web at www.strem.com. Commercial quantities are available directly from BASF.

Typical Applications

BASF Actimet 8040P is particularly useful for the hydrogenation of nitriles to amines such as the conversion of adiponitrile to hexamethylenediamine. The catalyst is also useful for nitro-group reductions to amine compounds, e.g. the conversion of 2,4-dinitrotoluene to toluene-diamine.

Packaging

- 25 kg net in 64-liter steel drums
- Other packaging sizes available upon request

Typical Properties

Nickel	92 wt%
Alumina	7 wt%
Molybdenum	1 wt%
Particle Size Distribution	95% within 0–80 microns
Average Particle Size	35 microns
pH of Supernatant	11

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF Catalysts develops unique, proprietary catalyst and adsorbent solutions that drive customer success.

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BASF Catalyst Headquarters

BASF Catalysts LLC
25 Middlesex/Essex Turnpike
P.O. Box 0770
Iselin, New Jersey 08830-0770 USA
Tel: +1-732-205-5000
Fax: +1-732-205-5687
Email: catalysts-americas@basf.com

Americas

Americas Customer Care

BASF Catalysts LLC
100 Campus Drive
Florham Park, NJ 07932 USA
Tel: +1-800-889-9845
+1-973-245-7445
Fax: +1-864-332-5087

Asia Pacific

Asia Customer Care

BASF (China) Company Limited
300 Jiang Xin Sha Road,
Pudong, Shanghai 200137
P.R. China
Tel: +86-21-2039 2549
Fax: +86-21-2039 4800-2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF Worldwide Headquarters

BASF SE
BASF Nederland B.V.
Tel: +31-30-6669555
Fax: +31-30-6669340
Email: catalysts-emea@basf.com

Europe Customer Care

BASF Italia Srl – Catalysts
00131 Rome, Italy
Tel: +39-06-41992605
Fax: +39-06-41992338

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