

Product Data Sheet

NanoSelect[™] Pt 200

BASF's Pt-200 is a carbon powder-based catalyst containing 0.8wt% of platinum and 0.3wt% of molybdenum as unimodal, highly dispersed, and reduced metal crystallites. The catalyst is supplied as a water-wet paste but can also be supplied in dry form.

General

NanoSelect[™] catalysts are characterized by unimodal metal particles on the nanometer scale. Nanotechnology is science and controlled engineering on the scale of nanometers (billionths of a meter). Reducing the size of metal particles to nanometers:

- Greatly increases the metal surface area available per gram.
- Boosts the catalytic activity.
- Demonstrates different catalytic behavior.

BASF used these basic principles to develop the innovative, patented NanoSelect[™] technology. This technology utilizes a BASF reagent to combine reducing and stabilizing functions that produce highly unimodal, nano-sized metal colloids. These colloids can be deposited onto different support materials resulting in heterogeneous catalysts that show unique catalytic behaviors.

BASF NanoSelect[™] Pt catalysts have specifically been designed to deliver high activity at low metal content while showing very high selectivity in the hydrogenation reaction.

Suggested Applications

BASF's Pt-200 catalyst is recommended for use in selective hydrogenation of nitro groups while preventing the buildup of the potentially explosive hydroxylamine intermediate. In addition, this catalyst has been shown to be very efficient in the selective reduction of nitro groups in molecules also containing other functional groups like ketones, nitriles and halides as they are typically not affected by this catalyst.

Availability

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

Typical Properties	
Active metal	Pt
Metal content, wt %	0.8
Туре	Reduced, water-wet
Support	Carbon powder
Mean particle size	25 micron

About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents, refinery catalysts and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions. Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions. Further information on BASF's Catalysts division is available on the Internet at www.catalysts.basf.com.

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