

PAL HP-150

High purity pseudoboehmite alumina

PAL HP-150 is a high purity and medium density pseudoboehmite alumina complementing our product line of aluminas for the catalyst and abrasives industries. High purity (HP) denotes very low levels of impurities such as sodium, silica and iron.

Product description

PAL HP-150 alumina is available as white, free-flowing powder. The alumina consists of small boehmite crystals, often referred to as microcrystalline boehmite or pseudoboehmite. The crystalline character of the alumina is controlled in the manufacturing process to optimize desired chemical and physical properties.

Applications

BASF PAL HP-150 alumina is a specialty product with diverse applications which include chemical catalysts, automotive washcoat catalysts, catalyst binders and supports, polishing compounds, viscosity modifiers, and more.

Safety & handling

Handling and storage equipment should be abrasion resistant. BASF PAL HP-150 alumina is classified as nontoxic nuisance dust and does not produce significant organic diseases or toxic effect with reasonable exposure. Normal good housekeeping and operating procedures should ensure personnel safety. The data contained herein are for general informational purpose only.

Please refer to the Safety Data Sheet for specific, complete information regarding these products.

Available packaging

- 1 mt super sacks

Chemical composition (wt%), typical

Al ₂ O ₃	70
Na ₂ O	<0.02
SiO ₂	<0.01
Fe ₂ O ₃	<0.01
Cl	<0.1
LOI (1000°C)	30

Physical Properties, typical

Alumina phase	Pseudoboehmite (PSB)
Loose bulk density (as is), kg/m ³	600
Surface area, m ² /g (1 hr @ 550°C)	260
Nitrogen Pore volume, cc/g (1 hr @ 550°C)	0.5-0.6
d ₅₀ , microns	8-18



We create chemistry

Product Data Sheet

Temperature transformations – As PAL HP-150 is heated the following transformations occur:

@ 250°C	PAL HP-150 → Non-dispersible PSB
@ 350-450°C	Non-dispersible → Gamma alumina
@ 800-900°C	Gamma alumina → Delta/theta
@ 1000-1100°C	Theta → Alpha conversion begins
@ 1300-1600°C	Alpha (porous) → Sintered alpha alumina

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's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

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