

F-200 L

Activated Alumina for Liquid and Gas Drying

BASF F-200 L is a smooth sphere of activated alumina. F-200 L is an excellent desiccant for drying a wide variety of liquids and gases. F-200 L is available in nominal sizes of 1/8", 3/16", and 1/4" spheres.

Product Benefits

1. Uniform ball size

This property is especially useful in high pressure gas dehydration where minimizing pressure drop is important. The uniform size and sphericity of BASF F-200 L prevent adsorbent segregation during pneumatic loading, thus minimizing channeling and yielding more efficient use of the entire desiccant tower.

2. High crush strength

BASF F-200 L has high crush strength which allows rapid pneumatic loading of towers. The high crush strength also allows use of taller towers that make more efficient use of the desiccant. BASF F200 L activated alumina is highly resistant to amine attack. Furthermore, BASF F-200 L high crush strength enables it to dehydrate acid containing gases and liquids, such as CO₂, for a longer operating life.

3. Low abrasion

The low abrasion of BASF F-200 L ensures less dusting during transport, loading, and service life which reduces pressure drop and minimizes downstream valve and filter plugging compared to competing products.

4. High adsorptive capacity

BASF F-200 L's high surface area and tailored pore distribution provide a high dynamic H₂O adsorption capacity. With proper tower design and effective regeneration, F-200 L can achieve a low H₂O effluent specification (i.e. dew point). BASF F200 L also has excellent cyclic stability that yields a long life.

Packaging

- 1200 kg super sacks
- 150 kg drums

Typical Chemical Composition* (wt%)

Al ₂ O ₃	93.0
SiO ₂	0.05
Fe ₂ O ₃	0.05
Na ₂ O	0.40
LOI (250-1100° C)	6.5

*These indicative properties represent typical results, not product specifications

Typical Physical Properties*	1/8" (3.9 mm)	3/16" (4.8 mm)	1/4" (5.8 mm)
Surface Area (m ² /g)	320	310	300
Total Pore Volume (cc/g)	0.45	0.45	0.45
Packed Bulk Density (kg/m ³)	720	720	745
Crush Strength [N (lbf)]	133 (30)	178 (40)	223 (50)
Abrasion Loss, wt %	0.15	0.15	0.15

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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, adsorbents and custom catalysts. Priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

BASF's chemical catalysts and adsorbents business is part of the company's Performance Chemicals division. The division's portfolio also includes refinery catalysts, fuel and lubricant solutions, as well as oilfield chemicals and mining solutions. Customers from a variety of industries including Chemicals, Plastics, Consumer Goods, Energy & Resources and Automotive & Transportation benefit from our innovative solutions.

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