

PAL M-300HD

Medium dispersibility pseudoboehmite alumina

Description

BASF PAL M-300HD is a pseudoboehmite alumina, also known as an aluminum monohydrate, $\text{AlO}(\text{OH})$. It is produced as a dry white powder with excellent fluidization characteristics. The powder is easily dispersed by most mulling operations. Extruded products exhibit good strength and high attrition resistance with tunable pore volume distribution.

Applications

BASF PAL M-300HD is a medium dispersibility pseudoboehmite alumina developed for applications where improved forming properties are required. This alumina is peptized by mineral or organic acids and show favorable shaping characteristics. Thermal activation of formed PAL M-300HD results in high surface area product with tunable pore volume distribution profile. Higher Dispersibility Index of PAL M-300HD as compared to PAL M-300 allows to optimize acid content in a formulation and avoid unnecessary NO_x , SO_x , volatile organics emissions often produced in a firing process.

Safety & handling

BASF PAL M-300HD alumina is classified as nontoxic and does not produce significant 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 material safety data sheet for specific, complete information regarding the product.

Available Packaging

- 1000 kg super sacks

Chemical composition (wt %), typical

| | |
|-------------------------|-------|
| Al_2O_3 | 70 |
| Na_2O | <0.05 |
| SO_4 | <0.25 |
| LOI (1000°C) | 25-33 |

Physical properties, typical

| | |
|--|----------------|
| Alumina phase | Pseudoboehmite |
| Loose bulk density (as is), kg/m^3 | 350-450 |
| Surface area, m^2/g (1 hr @ 550°C) | 280-300 |
| Nitrogen pore volume (1 hr @ 550°C) | 0.7-0.9 |
| d50, microns | 10-30 |
| Dispersibility Index, % | 45-52 |

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BASF - We create chemistry

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