



洛阳建龙微纳新材料股份有限公司

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## Zeolite JLDN-1

### Introduction

JLDN-1 is a silica-alumina zeolite with CHA structure. It has a pore size of 0.38 nm×0.38 nm. JLDN-1 is mainly used for purification and removal of NO<sub>x</sub> in diesel exhaust.

### Characteristic

1. JLDN-1 zeolite has high crystallinity, good hydrothermal stability, cation exchangeability and adjustable acidity.
2. JLDN-1 zeolite can adsorb N<sub>2</sub>, CH<sub>4</sub> and CO<sub>2</sub> molecules with a critical diameter of not more than 3.8 Å.
3. JLDN-1 can be used as a catalyst for the catalytic purification of NH<sub>3</sub>-SCR in diesel exhaust gas and methanol to olefins.

### Specification:

| Item                      | Condition   | Unit   | JLDN-1H | JLDN-1L |
|---------------------------|-------------|--|---------|---------|
| Static Water Adsorption   | 25°C, RH75% | %wt  | ≥20     | 15-17   |
| Package Moisture          | 550°C. 2h   | %wt  | ≤ 5     | ≤ 12    |
| BET                       |             | m <sup>2</sup> /g                                | > 600   | > 600   |
| Silicon to aluminum ratio |             | SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> | 25-30   | 6-7     |

### Application:

1. JLDN-1 is a new type of silica-alumina zeolite developed by our company. It can be used as adsorbent or catalyst carrier, such as air purifier and automobile exhaust gas purification catalyst.
2. Modified JLDN-1 has good catalytic performance for many important chemical reaction processes.

### Packaging

1. 40g/bag, inner plastic outer knitting;
2. 500 Kg/bag, 1000 Kg/bag;
3. Customize different packaging according to customer requirements;
4. Treatment and disposal after zeolite use
5. JLDN-1 zeolite can be treated and disposed of as general solid waste after use.