



## Activated Alumina JLAZ series Specification

JL-AZ has much higher advantage than common activated alumina, but similar regeneration temperature.

The product has been well received and used in air dryer and gas dehydration, etc.

| Specifications                     | JLAZ-1 | JLAZ-2      | Test Method                       |
|------------------------------------|--------|-------------|-----------------------------------|
| Size / mm                          | 3-4    | 1.6-2.5     | —                                 |
| Bulk Density/(g/cm <sup>3</sup> )  | ≥0.70  | 0.73±0.03   | Tapped                            |
| Crush Strength/N                   | ≥120   | ≥23         | Average 25 beads                  |
| Pore Volume / (cm <sup>3</sup> /g) | ≥0.40  | ~           | Pore Volume Surface Area Analyzer |
| Surface Area/(m <sup>2</sup> /g)   | ≥380   | 440±30      | Pore Volume Surface Area Analyzer |
| Loss on Ignition / %               | ≤8.0   | ≤1.5 (550℃) | 800℃, 2h                          |
| Static Water Adsorption            | ≥20    | ≥22         | RH60%,25℃                         |

✓ **Recommended Application:**

Air drying

✓ **Packing:**

1. 55 gallon air-tight iron drum,
2. ※Other packing according to your requirement.



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## Comparison Result of JLAZ-1 and Activated Alumina Adsorbents Used Air Dryer

| Regeneration Temperature (°C)         |                   | 300   | 250   | 225   | 200   | 175   | 150   | 125   | 100   | 90    | 80    |
|---------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Breakthrough time (min)               | Activated Alumina | 383   | 312   | 309   | 309   | 307   | 310   | 292   | 277   | 262   | 191   |
|                                       | JLAZ-1            | 499   | 451   | 437   | 450   | 431   | 453   | 391   | 367   | 285   | 281   |
| Dew Point (°C)                        | Activated Alumina | -46.3 | -47.1 | -46.8 | -46.1 | -46.0 | -45.0 | -45.0 | -46.0 | -44.4 | -44.5 |
|                                       | JLAZ-1            | -50.3 | -50.2 | -48.1 | -48.4 | -47.6 | -44.8 | -45.8 | -45.6 | -44.5 | -43.4 |
| Dynamic water adsorption capacity (%) | Activated Alumina | 14.22 | 11.58 | 11.47 | 11.47 | 11.40 | 11.51 | 10.84 | 10.28 | 9.73  | 8.09  |
|                                       | JLAZ-1            | 18.4  | 16.59 | 16.08 | 16.55 | 15.89 | 16.66 | 14.38 | 13.5  | 10.18 | 9.54  |