

## Non-metallurgical alumina

Non-metallurgical alumina is white, crystalline form of aluminum oxide, for a variety of industrial applications.

### Technical data

| Properties                     | Chemical Characteristics |                 |                 |
|--------------------------------|--------------------------|-----------------|-----------------|
|                                | unit                     | Typical Value   | Guarantee Value |
| Al <sub>2</sub> O <sub>3</sub> | %                        | 98.8 – 99,0     | 98,7            |
| SiO <sub>2</sub>               | %                        | 0,005 – 0,010   | 0,015 max       |
| Fe <sub>2</sub> O <sub>3</sub> | %                        | 0,008 – 0,012   | 0,018 max       |
| Na <sub>2</sub> O              | %                        | 0,19 – 0,22     | 0,25 max        |
| CaO                            | %                        | 0,018 – 0,025   | 0,030 max       |
| P <sub>2</sub> O <sub>5</sub>  | %                        | 0,0002 – 0,0005 | 0,0009 max      |
| TiO <sub>2</sub>               | %                        | 0,0020 – 0,0027 | 0,003 max       |
| ZnO                            | %                        | 0,017 – 0,020   | 0,022 max       |
| Properties                     | Physical Characteristics |                 |                 |
|                                | unit                     | Typical Value   | Guarantee Value |
| Specific surface area BET      | m <sup>2</sup> /g        | 75 - 90         | 70 min          |
| Bulk Density                   | kg/m <sup>3</sup>        | 1000 - 1050     | 1070 max        |
| LOI (300-1000°C)               | %                        | 0,6 – 0,9       | 1,00 max        |
| Angle of repose                | °                        | 32 - 34         | 35 max          |
| > 45 microns                   | %                        | 80 - 90         | 75 min          |
| < 20 microns                   | %                        | 1,0 – 2,0       | 2,5 max         |

The above values have been determined by the measuring methods and instruments of Nova Alumina doo Zvornik.

**Applications** In production refractories, abrasives, ceramics, aluminum sulfate, fire retardant, and others.

### Packaging

We offer different types of packaging depending on your production needs:

| Type of packing        | Bulk (t)   | Big bags (kg)    |                            | Small bags (kg) |                              |
|------------------------|------------|------------------|----------------------------|-----------------|------------------------------|
| Logistic units         | Silo truck | Per pallet       | Big bags - different types | Per pallet      | Small bags – different types |
| Mass per logistic unit | 25         | 1000, 1100, 1200 |                            | 1000            | 15, 20, 25                   |

Specific type of packaging can be offered on demand.

### Logistics

In order to meet your requirements in terms of delivery, we offer different logistic solutions.

Our basic offer in terms of TRANSPORTATION is:

| Type of Transportation | Road transportation           | Rail transportation           |
|------------------------|-------------------------------|-------------------------------|
| Packaging              | In bulk or in bags on pallet. | In bulk or in bags on pallet. |

Other type of delivery on demands.