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 **Origination Date: 03.08.2015.**

 **Version**: 1

**PRODUCT DATA SHEET**

**SYNTHETIC ZEOLITE 4A - AG**

Main application: Raw materials in detergents productions and other chemical industry.

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| **Chemical Characteristics** |
|  **Typical content**  **Guaranteed limits** |
| Water content, 1 h 800 °C | [%] | 20 | 18 - 22 |
| Al2O3  | [%] | 36 | 34 -37 |
| Na2O | [%] | 22 | 21 - 23 |
| SiO2  | [%] | 42 | 41 - 43 |
|  Totoal iron | ppm | 120 | 150 max |
|  Chelatable iron  | ppm | 30 | 40 max |

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| **Physical Characteristics** |
|  **Typical value** **Guaranteed limits** |
| Whitenes degree (Hunter colour L) | [%] | 98.5 | 97 min |
| Bulk Density | [kg/m3] | 330 | 270 - 380 |
| Calcium exchange capacity (mg CaO/g)  |  | 165 | 160 min |
| pH Value (1 %, 25 ºC) |  | 11 | 11±1 |
| Particle size distribution  |  |  |  |
|  Median Diameter D50 | [μm] | 4 | 3 - 6 |
| Sieve residue (Wet sieving; > 45 μm) | [%] | 0.2 | 0.5 max |
| Oil adsorption capacity (g / 100 g) |  | 52 | 48 - 55 |
| Cristallinity (X ray diffraction XRD) | [%] | 100 | 95 min |

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

Product is available in bulk, containers or packaged depending on our customer requirements and available for delivery in the following modes of transport:

* Road - silo trucks, silo containers, pallets
* Rail - bulk and pallets

Compliance: This product is REACH compliant, ask Alumina doo for the associated REACH

registration details.