## RAYASIL® AB

## **Technical Data Sheet**

**RAYASIL®** AB is a high-purity synthetic zeolite powder that is manufactured using a hydrothermal synthesis process. Its crystalline structure and uniform, fine particle size make it a valuable material for various industries including plastics and paint. Its unique properties make it suitable for a wide range of applications, contributing to the advancement of technology and innovation in these industries.

#### Application:

- Desiccant (moisture control)
- Adsorption (odor, gases, impurities)
- IR-absorber
- Water-treatment

- Catalysis
- Anti-blocking
- Anti-caking
- Acid Scavenger

#### Physical and Chemical Characteristics

|                                | AB<br>3000                                  | AB<br>5000 | AB<br>8000 |           | Method          |  |  |  |
|--------------------------------|---|------------|------------|-----------|-----------------|--|--|--|
| Sieve residue 45 µm            | ≤ 0.02                                      | ≤ 0.05     | ≤ 0.1      | wt%       | ISO 3262-19     |  |  |  |
| D50                            | 3±1   | 5±2        | 8±3        | μm        | Malvern MS 2000 |  |  |  |
| Temped Density                 | 570   | 630        | 750        | g/l       | ISO 787-11      |  |  |  |
| pH 5 wt%                       | 11±0.5                                      | 11±0.5     | 11±0.5     |           | ISO 787-9       |  |  |  |
| Oil Absorption                 | 35  | 50         | 75         | gr/100 gr | ISO 787-5       |  |  |  |
| Hardness                       | 4   | 4          | 4          | Mohs      |                 |  |  |  |
| Specific Surface Area<br>(BET) | 1-2   | 1-2        | 1-2        | m²/gr     | ISO 9277        |  |  |  |
| Refractive index               | 1.48  | 1.48       | 1.48       |           |                 |  |  |  |
| Humidity                       | ≤5  | ≤5         | ≤5         |           | ISO 787-2       |  |  |  |
| Melting Point                  | 1600  | 1600       | 1600       | °C        |                 |  |  |  |
| Appearance                     | White Powder                                |            |            |           |                 |  |  |  |
| Classification                 | Inorganic                                   |            |            |           |                 |  |  |  |
| CAS number                     | 1318-02-1                                   |            |            |           |                 |  |  |  |
| Sensitivity                    | Hygroscopic                                 |            |            |           |                 |  |  |  |
| Storage                        | Dry, tight-closed, at a regular temperature |            |            |           |                 |  |  |  |
| Package                        | 25  | 25         | 25         | Kg        |                 |  |  |  |
| Solubility                     | Insoluble in water                          |            |            |           |                 |  |  |  |

The above given information is based on mean values. The typical properties and chemical analyses are intended as examples and are not to be considered as substitutes for actual testing and analyses in those situations where properties and chemical compositions are critical factors. Sales and supplies will always be according to our general sales conditions.

MSDS available on request

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#### Chemical composition:

|       | AB<br>3000 | AB<br>5000 | AB<br>8000 |     | Method |
|-------|------------|------------|------------|-----|--------|
| L.0.I | 20         | 20         | 20         |     |        |
| Si02  | 36         | 36         | 36         | %   |        |
| Al203 | 27         | 26         | 26         | %   |        |
| Na20  | 16         | 16         | 16         | %   |        |
| CaO   | ≤300       | ≤300       | ≤300       | ppm |        |
| Fe203 | ≤100       | ≤100       | ≤100       | ppm |        |
| K20   |            | N          |            | %   |        |
| P205  |            | N          |            | %   |        |
| Mg0   |            | N          |            |     |        |
| TiO2  |            | N          |            | ppm |        |
| S     |            | N          |            | ppm |        |
| Cl    |            | N          |            | ppm |        |
| Ва    |            | N          |            | ppm |        |
| Со    |            | N          |            | ppm |        |
| Cr    |            | N          |            | ppm |        |
| Мо    |            | N          |            | ppm |        |
| V     |            | N          |            | ppm |        |
| Cd    |            | N          |            | ppm |        |
| As    |            | N          |            | ppm |        |
| Ag    |            | N          |            | ppm |        |
| Cu    |            | N          |            | ppm |        |
| Pb    |            | N          |            | ppm |        |
| Се    |            | N          |            | ppm |        |
| La    |            | N          |            | ppm |        |
| Sr    |            | N          |            | ppm |        |
| Zn    |            | N          |            | ppm |        |

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