



Imerys Minerals Bulgaria AD

R 07.00.15

TECHNICAL DATA SHEET

ZEOLITE

Copy No:3-2016

1. APPLICATION FIELD:

- It is used as an additive to the fodder in keeping pigs, chickens, calves, lambs. It stimulates the growth of the young animals as it enhances the bone system. Due to the good adsorption properties it swallows up the ammonium compounds in the stomach of the animals, improves the activity of the stomach-intestine tract.
- It takes away the unpleasant odor from the sewage waters in the stock - breeding farms, supports the litters to be dry, protects the animals from development of pathogenic bacteria, improves the quality of the natural received manure.
- Due to their affinity to the ions of some heavy metals and radioactive elements, the zeolites are used for purification of industrial polluted waste and potable waters.
- It goes into the composition of the mineral mixtures. Together with bentonite, perlite, macro- and micro-manure (fertilizers) it creates a sterile nutritious medium in growing flowers and different agriculture crops.

2. TECHNICAL REQUIREMENTS:

Standard/ ISO procedure

Typical chemical analysis:

- | | |
|--|------------|
| ● Content of SiO ₂ ~ 69.62 % | R 08.04.73 |
| ● Content of TiO ₂ ~ 0.11 % | R 08.04.78 |
| ● Content of Al ₂ O ₃ ~ 13.62% | R 08.04.74 |
| ● Content of Fe ₂ O ₃ ~ 0.75 % | R 08.04.77 |
| ● Content of CaO ~ 3.28 % | R 08.04.75 |
| ● Content of MgO ~ 0.9 % | R 08.04.75 |
| ● Content of K ₂ O ~ 2.94% | R 08.04.77 |
| ● Content of Na ₂ O ~ 0.55 % | R 08.04.77 |
| ● Loss of ignition 1050°C ~ 8.23 % | R 08.04.79 |

Value of cation exchange capacity (CEC), mgeqv /100g - min 150	R 08.04.53
Moisture content , % - max 15	R 08.04.21
Clinoptilollite content, % - min 85	R 08.04.61

Deviation is allowed not more than 20% residue below the lower screens and up to 20% above the upper screens.

In case of an agreement between the user and the producer, it is allowed production of some other fractions zeolite.

3.COMMERCIAL NAME:

- BZM 0.15 – Zeolite milled - with granularity from 0 up to 0.15 mm**
- BZF 0.8 - Zeolite - with granularity from 0 up to 0.8 mm**
- BZF 2.5 - Zeolite - with granularity from 0.8 up to 2.5 mm**
- BZF 5.0 - Zeolite - with granularity from 2.5 up to 5.0 mm**
- BZF 1.0-5.0 - Zeolite - with granularity from 1.0 up to 5.0 mm**
- BZF 5-30 - Zeolite - with granularity from 5.0 up to 30 mm**
- BZF 30 - Zeolite - with granularity from 0 up to 30 mm**