

19.05.2011

## SPECIFICATION OF MAGNESIUM NITRATE

### 1. Composition

- 1.1 Molecular formula : **Mg(NO<sub>3</sub>)<sub>2</sub> x 6 H<sub>2</sub>O**  
1.2 Chemical Composition : min 99,0% Mg(NO<sub>3</sub>)<sub>2</sub> x 6H<sub>2</sub>O typical 99,8 %  
min 15,6% MgO  
min 9,5% Mg  
min 10,5% N  
typically Fe as Fe<sub>2</sub>O<sub>3</sub> < 0,001%  
K < 0,05%  
Na < 0,05%  
SO<sub>4</sub> < 0,1%
- 1.3 Physical Appearance : Form – pellets  
Colour - slighty yellowish / white

### 2. Contaminants

- 2.1 Total Content Heavy Metals: as Pb max 8 ppm  
2.2 Pb- content < 2 ppm  
2.3 Cd-content < 1 ppm  
2.4 As-content < 1 ppm

### 3. Sieve Analysis

min. 90 % - 5 mm

### 4. Solubility

- 4.1 In water (20°C) : 2.250 g/l  
4.2 % Insolubles : < 0,01%

**5. pH of 1% solution** : 6,5 +/- 1,0

### 6. Density

- 6.1 Chemical density : 1,464 kg / dm<sup>3</sup> at 20°C  
6.2 Bulk density : 700 – 800 kg / m<sup>3</sup>