



# Omnimpex Chemicals S.A.

Romania, Bucuresti, Sector 5, cod 76202, Str. Dr. Nicolae Staicovici, nr. 2, Opera Center II  
Tel: (401) 410 98 38, (401) 410 27 68, (401) 410 27 86, Fax: (401) 410 98 50  
Email: [omnimpex@omnimpex.ro](mailto:omnimpex@omnimpex.ro), <http://www.omnimpex.ro/>

## N P K COMPLEX FERTILIZER Technical Specifications

**Quality** – as per attached table

### Analysis methods

- Total nitrogen – according to STAS 11411/1-88 – by reduction of the nitrates to ammonia by means of Dewarda alloy in alkali medium. Ammonia is distilled and trapped in a known volume of sulphuric acid and the exceed is titrated with NaOH solution.
- P<sub>2</sub>O<sub>5</sub> – according to SR ISO 6598/96 – by gravimetric method. Orthophosphate ions are precipitated in quinoleine phosphomolybdate in acid medium.
- K<sub>2</sub>O - according to STAS 11411/3-86 – by flamephotometric method. The sample solution is sprayed into a flamephotometer burner and the emitted radiant intensity is measured at 766 nm.
- Admitted differences for nitrogen, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O are maximum 0.5 % in absolute value
- Humidity – Karl-Fisher method, according to SR ISO 760/93. Allowed differences between paralel tests are 0.05 % and between tests of two laboratories are 0.1 % in absolute value.
- Granulation – Mechanical sieving through sieves of 1 mm and 4 mm meshes.

**Quality inspection** • Is performed for each 300 tons batch. A “Conformity statement” will be accompanying every loaded vehicle.

**Packing**

- Product is delivered in bulk or packed in polypropylene bags with inner polyethylene bags. The inner bags are closed by welding and the polypropylene bags are closed by sewing.
- Bag weight is 50 kg net ± 0.5 kg.
- Also packing can be made in pp + pe bags of 500 kg or 1000 kg

**Storage and transportation**

- Storage and transportation shall be done in maximum 20 levels stowage for 50 kg bags and 3 levels stowage for bags of 500 kg and 1000 kg, in closed dry and clean storehouses and vehicles
- The product must be protected from direct sunrays and be kept in a temperature between -10 and + 30 °C.
- Vehicles shall be clean, dry, weatherproof covered and inside without sharp objects that could cut or puncture the bags.
- During railway transportation the International Regulation of Transportation (RID) shall be respected.
- For bulk deliveries by sea, vessels hatches must not be wet, oily or dirty from the previous transported materials. The walls must be free of cutting rust.

**Note** • The quality of the product is guaranteed for a period of 1 years from the manufacturing date provided that storage and transportation conditions are respected

<b>TYPE</b>	<b>20.20.0</b>	<b>15.15.15</b>	<b>20.10.10</b>	<b>27.13,5.0</b>	<b>16.16.16</b>
<b>Aspect :</b> coloured prills					
<b>Nitrogen</b> (related to dry substance), min. %	20	15	20	27	16
<b>P2O5</b> ( related to dry substance), min. %, from which min. 98 % is 2 % citric acid soluble	20	15	10	13,5	16
<b>K2O</b> ( related to dry substance ) resulted					
- From KCl, min. %	0	15	10	0	16
- From K <sub>2</sub> SO <sub>4</sub> , min %	-	-	-	-	-
<b>Humidity</b> , max. %	0.6	0.6	0.6	0.6	0.6
<b>Granulometry :</b>					
- between 1 mm – 4 mm , min. %	95	95	95	95	95
- under 1 mm and above 4 mm, max. %	5	5	5	5	5