

Certificate of Analysis : 10.25.12S+2MgO+TE

EC Fertilizer – NPK fertilizer low in chloride (Mg) (S) 10.25.12 with micronutrients (B, Zn)

Grade : 10+25+12 SOP Platinum
 Product code : 10.25.12S-31
 Production period : March 2019, batch n° 602234
 Site of Production : ROSIER S.A.

Parameters	Specifications (% w/w)	Minimum acc. to EC Reg. (% w/w)	ROSIER Analysis (% w/w)
Total nitrogen (N)	10.0	8.9 *	10.8
Ammoniacal nitrogen (N)	8.2	7.2	9.3
Nitric nitrogen (N)	1.8	0.8	1.5
Phosphorus pentoxide (P ₂ O ₅) soluble in neutral ammonium citrate and water	25.0	23.9 *	23.9
Phosphorus pentoxide (P ₂ O ₅) soluble in water	16.0	14.0	21.7
Potassium oxide (K ₂ O) soluble in water, low in chloride	12.0	10.9 *	11.9
Magnesium oxide (MgO) total	2.0	1.5	3.1
Sulphur trioxide (SO ₃) total	15.7	14.8	21.6
Sulphur trioxide (SO ₃) soluble in water	12.0	11.1	20.7
Boron (B) soluble in water	0.1000	0.0800	0.0944
Zinc (Zn) total	0.2000	0.1600	0.2187

* Total negative deviations from the declared value of primary nutrients N, P₂O₅ and K₂O must be below 1.9

Parameters	Specifications	ROSIER Analysis
Arsenic (As) total (ppm)	< 15	5.2
Cadmium (Cd) total (mg Cd/kg P)	< 50	25.9
Chromium (Cr) total (ppm)	< 120	37.2
Mercury (Hg) total (ppm)	< 1	n.a.
Nickel (Ni) total (ppm)	< 40	18.0
Lead (Pb) total (ppm)	< 15	< 2

n.a. : not analyzed

Parameters	ROSIER Analysis
Humidity (H ₂ O) (%)	1.28
pH 10% (w/w)	6.16
Chloride (Cl) (%)	0.76

Parameters	ROSIER Analysis
Hardness (kgF)	10 - 12
Tapped density (t/m ³)	1.22
Bulk density (t/m ³)	1.18

<u>Particle size distribution</u>	<u>ROSIER Analysis</u>
> 5 mm (%)	0.0
4 – 5 mm (%)	12.7
3.15 – 4 mm (%)	76.6
2.5 – 3.15 mm (%)	10.4
2 – 2.5 mm (%)	0.2
1.6 – 2 mm (%)	0.1
< 1.6 mm (%)	0.0
D50 (mm)	3.58

Tolerance

Regulation (EC) N°2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers (OJ-L304/1).

10/07/2019 – ROSIER SA – LABORATORY

