



TECHNICAL DATA SHEET

Compound Fertilizer NPK 15-15-15 + 10S + TE

N 15 · P₂O₅ 15 · K₂O 15 · +10S +TE TC 310106122-01.2023



Compound Fertilizer NPK 15-15-15 + 10S + TE

Regulatory document: TS 310106122-01.2023 OKP 218 612 HS 3105 20 1000

Granular compound nitrogen-phosphorus-potassium fertilizer with sulfur (SO_3) and micronutrients (zinc). A balanced formula for all growth stages: sulfur improves nitrogen uptake and protein synthesis, zinc supports growth and fruit formation. For basal application, top dressing and fertigation.

CHEMICAL PROPERTIES

Indicator	Method	Value
Mass fraction of total nitrogen (N), %, min.	TS 310106122-01.2023	15
Mass fraction of available phosphorus (P_2O_5), %, min.	TS 310106122-01.2023	15
Mass fraction of potassium (K_2O), %, min.	TS 310106122-01.2023	15
Mass fraction of sulfur (SO_3), %, min.	TS 310106122-01.2023	10
Mass fraction of zinc (Zn), %, min.	TS 310106122-01.2023	0.20
Mass fraction of water, %, max.	drying at 105 °C	1.0

PHYSICAL PROPERTIES

Parameter	Value
Appearance	spherical granules, grey-white in color, odorless
Granule size	2–4 mm
Bulk density	1.0–1.15 g/cm ³
Solubility in water	highly soluble
pH value	4.5–6.5
Fire and explosion hazard	non-combustible, non-explosive

Granulometry	Method	Value
Main fraction 2–4 mm, %, min.	TS 310106122-01.2023	90
Fraction below 1 mm, %, max.	TS 310106122-01.2023	3

APPLICATION

Parameter	Value
Application method	basal application, top dressing, fertigation
Crops	cereals, cotton, maize, vegetables, fruit trees, oilseeds
Application rate	cereals 150–250; cotton and maize 200–300; vegetables 200–400; fruit crops 300–500 kg/ha (approximate, to be refined by soil agrochemical analysis)
Application	evenly before sowing; in rows and between rows; through drip irrigation systems

STORAGE · PACKAGING

Parameter	Value
Storage conditions	dry, cool, ventilated warehouse; away from direct sunlight and moisture; on pallets
Guaranteed shelf life	1 year from the date of manufacture
Packaging	PP bags 25 kg / 50 kg; big bag 500 kg / 1000 kg
Transport marking	"Keep away from moisture" (GOST 14192-96)

SAFETY DATA SHEET (MSDS)

Parameter	Value
Hazard class	3 — moderately hazardous (GOST 12.1.007)
Fire and explosion hazard	non-combustible, non-explosive
MAC, workplace air	10 mg/m ³
Decomposition	strong heating may release ammonia (NH ₃)
PPE	respirator, safety goggles, gloves
Safety Data Sheet (MSDS)	full MSDS (16 sections) — as a separate document

CERTIFICATION

Regulatory document: TS 310106122-01.2023. Quality management system: ISO 9001, ISO 14001, ISO 45001 (SHAMS ASSH LLC).


ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

PRODUCT PHOTOS

Photos to be added by the plant: granules · 50 kg bag · big bag



Name of indicators	Specification
Mass fraction of total nitrogen (N), %, min.	15
Mass fraction of available phosphorus (P_2O_5), %, min.	15
Mass fraction of potassium (K_2O), %, min.	15
Mass fraction of sulfur (SO_3), %, min.	10
Mass fraction of zinc (Zn), %, min.	0.20
Mass fraction of water, %, max.	1.0

The product complies with the requirements of TS 310106122-01.2023 and is deemed fit for use.



Authenticity check