



TECHNICAL DATA SHEET

Compound Fertilizer NPS 20-20-14

N 20 · P₂O₅ 20 · S 14 TC 310106122-01.2023



Compound Fertilizer NPS 20-20-14

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

Granular compound nitrogen-phosphorus fertilizer with sulfur (NPS). Nitrogen and phosphorus provide plant nutrition, sulfur improves nitrogen uptake and protein synthesis. For basal application and top dressing, especially on sulfur-deficient soils.

CHEMICAL PROPERTIES

Indicator	Method	Value
Mass fraction of total nitrogen (N), %, min.	TS 310106122-01.2023	20
Mass fraction of available phosphorus (P_2O_5), %, min.	TS 310106122-01.2023	20
Mass fraction of sulfur (S), %, min.	TS 310106122-01.2023	14
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)

ООО «SHAMS ASSH»

Республика Узбекистан, Ташкентская область, Янгиюльский район, Хужаобод МФЙ, массив ГЭС-4, дом 36

Тел: +998 70 020-99-00

E-mail: shamsagrouzb@gmail.com

shamsagro.uz

Telegram: @shamsagro_uz

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



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Тел: +998 70 020-99-00

E-mail: shamsagrouzb@gmail.com

shamsagro.uz

Telegram: @shamsagro_uz

Name of indicators	Specification
Mass fraction of total nitrogen (N), %, min.	20
Mass fraction of available phosphorus (P ₂ O ₅), %, min.	20
Mass fraction of sulfur (S), %, min.	14
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