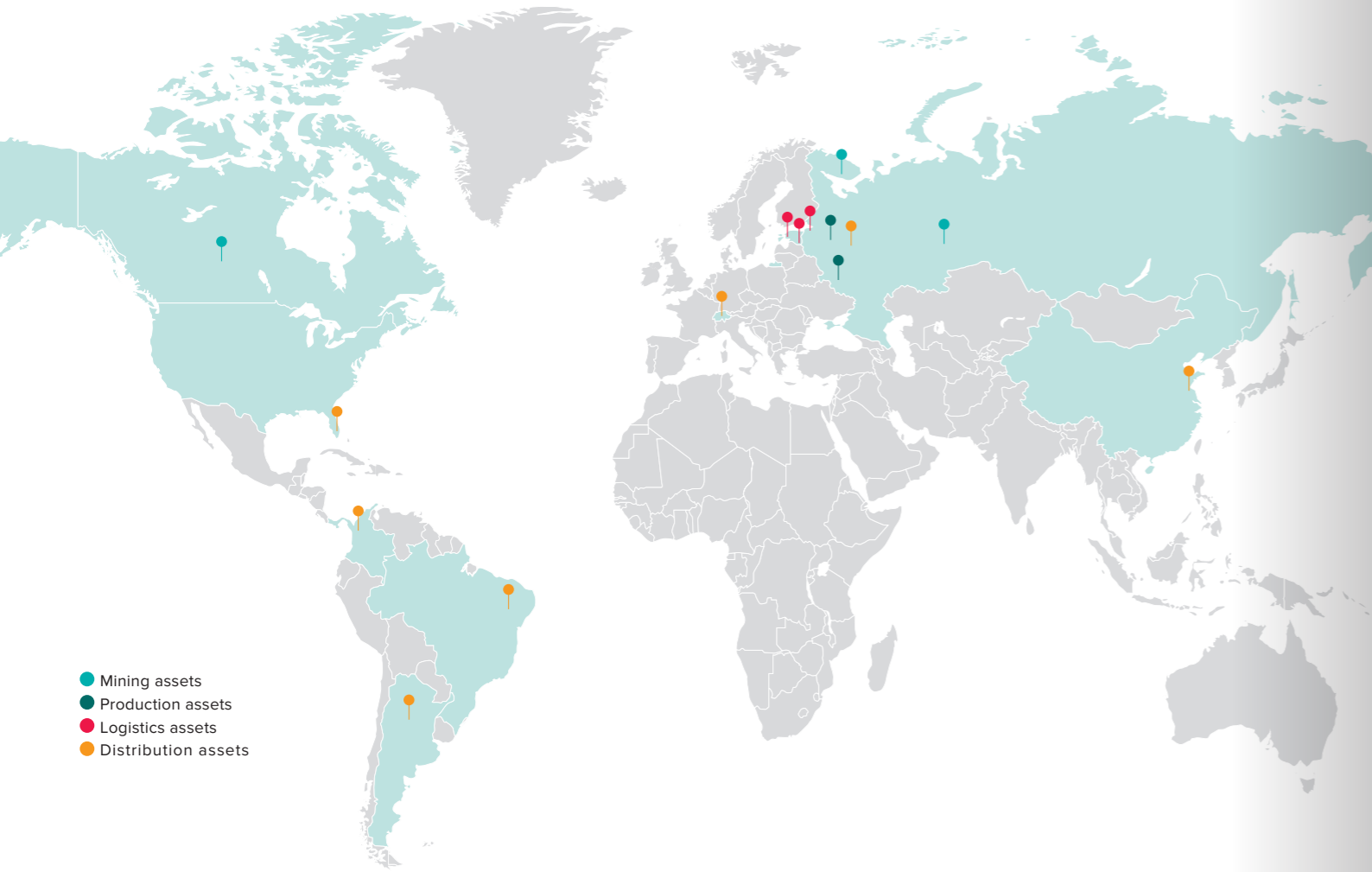


# PRODUCT CATALOGUE





# ACRON



Among the global **top 10** in complex and nitrogen fertiliser production



Our labs performed over **100,000 product quality tests** in 2021



We control our entire business chain, from mining and production to logistics and distribution



Sustainability, safety and social responsibility



Member of the International Fertilizer Association, Russian Fertilizer Producers Association and European Fertilizer Import Association



2021 output: **8.5 million tonnes of products**



Portfolio includes over **40 products**



Sales to **73 countries**



**11,541 employees** in **nine countries**



# PRILLED AMMONIUM NITRATE



- All-purpose high-analysis nitrogen fertiliser containing equal amounts of nitrate and ammonia nitrogen to fertilise plants throughout the growing period
- Can be used with all soils and crops
- Most effective if applied as additional nutrient for agricultural crops in spring and summer
- Produced from environmentally friendly feedstock

## Packing and storage

Sold in bulk, in 1,000 kg and 500 kg big bags

Store separately in dry premises

Appearance	Light yellow granules
Total nitrogen, %, min	34.4
Water with calcium nitrate and magnesium nitrate additives, %, max	0.3
Granule size:	
<1 mm, %	3
2–4 mm, %, min	50
1–4 mm, %, min	95
Static granule strength, MPa (kgf/cm <sup>2</sup> ), min	7(70)
Friability, %, min	100

Manufactured by Acron (Novgorod region), Dorogobuzh (Smolensk region)

## SYMBOLS



For all soils in all climate zones in Russia



For all crops



Granulated, freely water-soluble



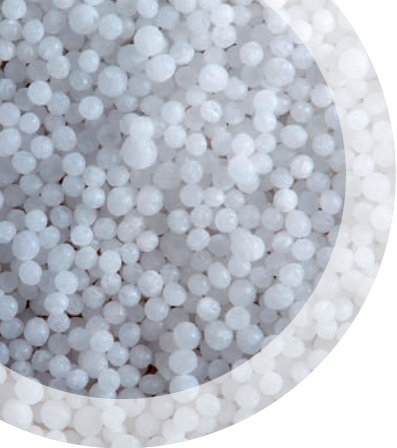
Environmentally safe



Suitable for foliar application



Contains two forms of nitrogen



## UREA



- Most concentrated nitrogen mineral fertiliser
- Provides plants with a long-term source of nitrogen
- Fully water-soluble
- Suitable for irrigation systems
- Especially effective for rice and melon cultivation
- Can be used as foliar fertiliser
- Produced from environmentally friendly feedstock

### Packing and storage

Sold in bulk, in 400 kg or 800 kg big bags and 50 kg bags

Store separately in dry premises

Appearance	White granules
Total nitrogen, %, min	46.2
Biuret, %, max	1.4
Water, %, max	
– hygroscopic %	0.3
– total %	0.5
Granule size:	
<1 mm, %	3
2–4 mm, %, min	70
1–4 mm, %, min	90
Static granule strength, N (kgf), min	7 (0.7)
Friability, %, min	100

Manufactured by Acron (Novgorod region)



## UREA-AMMONIUM NITRATE (UAN-32)



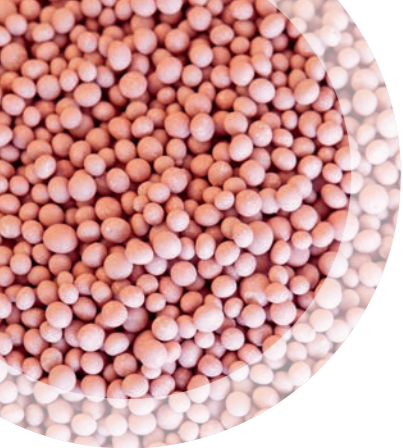
- High-performance liquid nitrogen fertiliser
- Applied as basic nitrogen fertiliser
- Most suitable for foliar application on grain crops
- UAN increases grain protein

### Storage

Store in special tanks made of carbon steel, steel alloy or aluminium with tightly closed hatches

Appearance	Clear liquid
Total nitrogen, %, min	32.0
Urea/AN mass ratio	0.74–0.8
Alkalinity in terms of free ammonia, %	0.02–0.30

Manufactured by Acron (Novgorod region)



## BALANCED NPKs



- High-performance complex fertilisers containing the most important nutrients for plants in each granule
- Contain ammonia and nitrate nitrogen to provide the plants with a long-term nitrogen nutrition
- Can be used with all soils and crops
- Most effective as the basic fertiliser for cereal crops and potatoes
- Produced from environmentally friendly feedstock

### Brands

NPK 16-16-16

NPK 15-15-15

### Packing and storage

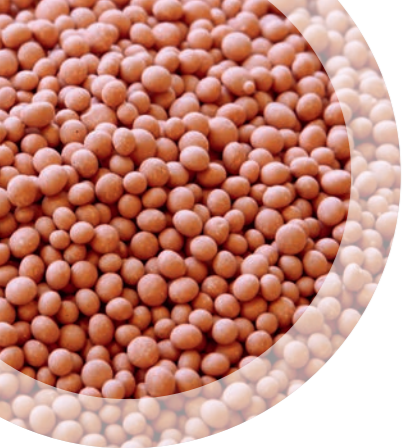
Sold in bulk, in 1,000 kg or 500 kg big bags and in 50 kg bags

Store separately in dry premises

	16-16-16	15-15-15
Total nitrogen, %, min, including	16	15
– ammonia nitrogen, %	9.6	9
– nitrate nitrogen, %	6.4	6
Phosphates (P <sub>2</sub> O <sub>5</sub> ) available, %, min	16	15
Phosphates (P <sub>2</sub> O <sub>5</sub> ) water-soluble, %, min	12	11
Potassium (K <sub>2</sub> O), %, min	16	15
Water, %, max	0.7	1
Granule size:		
<1 mm, %, max	2	3
2–4 mm, %, min	75	
1–4 mm, %, min	95	90
<6 mm, %	100	100
Static granule strength, MPa (kgf/cm <sup>2</sup> ), min	6 (60)	6 (60)
Friability, %, min	100	100

Manufactured by Acron (Novgorod region), Dorogobuzh (Smolensk region)





## HIGH-NITROGEN NPKs



- All-purpose high-performance fertilisers
- Contain optimal ratios of nitrogen, phosphorus and potassium in each granule
- Especially effective as a spring feeding for annual and perennial grasses, forage and winter crops
- Can be used with all soils and crops
- Produced from environmentally friendly feedstock

### Brands

NPK 25-9-9  
 NPK 20-10-10  
 NPK 22-11-11  
 NP 23-22

### Packing and storage

Sold in bulk, in 1,000 kg or 500 kg big bags and 50 kg bags  
 Store separately in dry premises

	25-9-9	20-10-10	22-11-11	23-22
Total nitrogen, %, min, including	24.5 ± 0.5	20	22	23
– ammonia nitrogen, %	14.3	10.6	11.9	12.8
– nitrate nitrogen, %	10.7	9.4	10.1	10.2
Phosphates (P <sub>2</sub> O <sub>5</sub> ) available, %, min	9	10	11	22
Phosphates (P <sub>2</sub> O <sub>5</sub> ) water-soluble, %, min	6	7	8	15
Potassium (K <sub>2</sub> O), %, min	9	10	11	0
Water, %, max	0.7	0.7	0.7	0.7
Granule size:				
<1 mm, %, max	3	3	3	3
2–4 mm, %, min	75	75	75	75
1–4 mm, %, min	92	92	92	92
<6 mm, %	100	100	100	100
Static granule strength, MPa (kgf/cm <sup>2</sup> ), min	4 (40)	4 (40)	4 (40)	4 (40)
Friability, %, min	100	100	100	100

Manufactured by Acron (Novgorod region), Dorogobuzh (Smolensk region)





## SULPHUR-CONTAINING NPKs



- High-performance fertilisers containing sulphur
- Ensure even application of nutrients in topsoil
- Contain sulphur as water-soluble sulphates
- Improve the absorption of phosphorus by plants
- Improve marketability
- Can be used on all soils
- Especially effective for oil crops and vegetables
- Produced from environmentally friendly feedstock

### Brands

NPK 18-6-18+5SO<sub>3</sub>+2MgO

NPK 19-16-8+7SO<sub>3</sub>

NP 22-18+10SO<sub>3</sub>

NP 22-20+5SO<sub>3</sub>

NP 22-15+17SO<sub>3</sub>

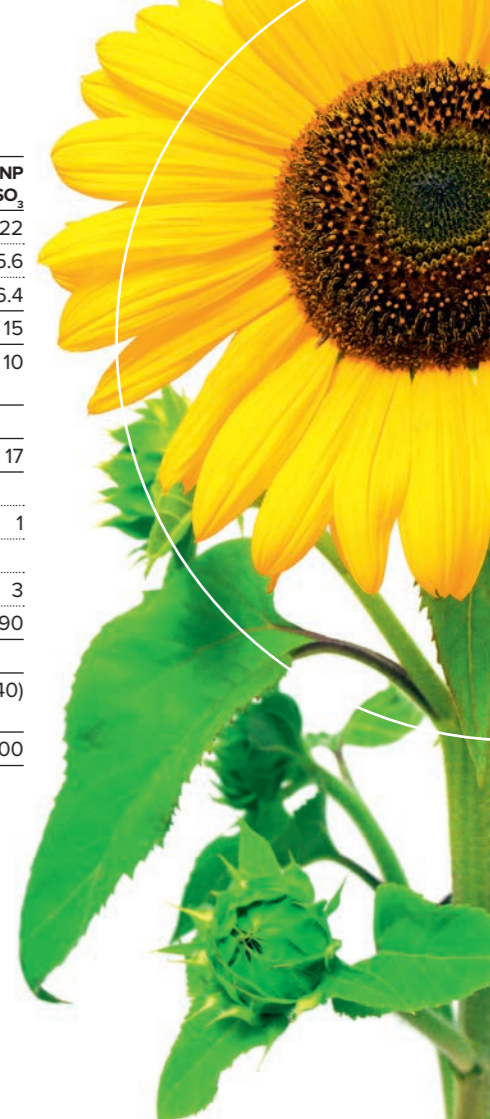
### Packing and storage

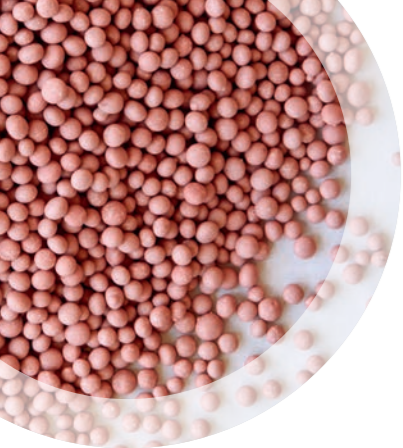
Sold in bulk, in 1,000 kg or 500 kg big bags and 50 kg bags

Store separately in dry premises

	NPK 18-6-18+5SO <sub>3</sub> +2MgO	NPK 19-16-8+7SO <sub>3</sub>	NP 22-18+10SO <sub>3</sub>	NP 22-20+5SO <sub>3</sub>	NP 22-15+17SO <sub>3</sub>
Total nitrogen, %, min, including	18	19	22	22	22
– ammonia nitrogen, %	10.3		14.5	13.4	15.6
– nitrate nitrogen, %	7.7		7.5	8.6	6.4
Phosphates (P <sub>2</sub> O <sub>5</sub> ) available, %, min	6	16	18	20	15
Phosphates (P <sub>2</sub> O <sub>5</sub> ) water-soluble, %, min	4	12	13	15	10
Potassium (K <sub>2</sub> O), %, min	18	8			
Sulfur (SO <sub>3</sub> ), %, min	5	7	10	5	17
Magnesium (MgO), %, min	2				
Water, %, max	0.7	1	1	1	1
Granule size:					
<1 mm, %, max	3	3	3	3	3
1-4 mm, %, min	92	90	90	90	90
<6 mm, %	100	100	100	100	100
Static granule strength, MPa (kgf/cm <sup>2</sup> ), min	4 (40)	4 (40)	4 (40)	4 (40)	4 (40)
Friability, %, min	100	100	100	100	100

Manufactured by Acron (Novgorod region)





## NPK 19-9-19



- Complex fertiliser containing essential plant nutrients in each granule
- Ensures even application of nutrients in topsoil
- All nutrients are readily available
- Can be used with all soils and crops
- Most effective for soils with high content of labile phosphorus and for potassium-loving plants (potatoes, buckwheat)
- Produced from environmentally friendly feedstock

### Packing and storage

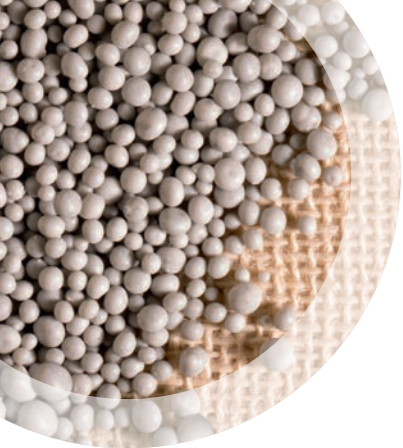
Sold in bulk in 1,000 kg or 500 kg big bags and 50 kg bags  
Store separately in dry premises

Appearance	Light rose and grey granules
Total nitrogen, %, min, including	19
– ammonia nitrogen, %	10.3
– nitrate nitrogen, %	8.7
Phosphates ( $P_2O_5$ ) available, %, min	9
Phosphorus ( $P_2O_5$ ) water soluble, %, min	7
Potassium ( $K_2O$ ), %, min	19
Water, %, max	0.7
Granule size:	
<1 mm, %, max	3
2–4 mm, %, min	75
1–4 mm, %, min	93
<6 mm, %	100
Static granule strength, MPa ( $kgf/cm^2$ ), min	5 (50)
Friability, %, min	100

Manufactured by Acron (Novgorod region)







## CHLORINE-FREE NPKs



- Chlorine-free complex fertilisers with optimal proportions of nitrogen, phosphorus and potassium
- Most effective for open-ground vegetable planting
- Can be used with all soils and crops
- Produced from environmentally friendly feedstock

### Brands

NPK 15-15-15

NPK 17-8-18

### Packing and storage

Sold in bulk, in 1,000 kg or 500 kg big bags and 50 kg bags

Store separately in dry premises

	15-15-15	17-8-18
Total nitrogen, %, min, including	15	17
– ammonia nitrogen, %	8.2	9.1
– nitrate nitrogen, %	6.8	7.9
Phosphates (P <sub>2</sub> O <sub>5</sub> ) available, %, min	15	8
Phosphates (P <sub>2</sub> O <sub>5</sub> ) water-soluble, %, min	11	5
Potassium (K <sub>2</sub> O) in chlorine-free form, %, min	15	18
Sulfur (SO <sub>3</sub> ), %, min	12	12
Water, %, max	1	1
Granule size:		
<1 mm, %, max	2	3
1–4 mm, %, min	95	92
<6 mm, %	100	100
Static granule strength, MPa (kgf/cm <sup>2</sup> ), min	6 (60)	4 (40)
Friability, %, min	100	100

Manufactured by Acron (Novgorod region).





## NPK BULK BLENDS



- Bulk blends are used for basic pre-sowing application and as a supplement
- Uniform granule size
- Can be used with all soils and crops requiring controlled nutrient application
- Various nutrient proportions depend on soil and crops
- Produced from environmentally friendly feedstock

### Brands

NPK 33-1-1  
NPK 31-3-3  
NPK 30-4-4  
NPK 29-5-5  
NPK 27-6-6

### Packing and storage

Sold in bulk, in 1,000 kg or 500 kg big bags and 50 kg bags  
Store separately in dry premises

	33-1-1	31-3-3	30-4-4	29-5-5	27-6-6
Total nitrogen, %, min	33	31	30	29	27
Phosphates available ( $P_2O_5$ ), %, min	1	3	4	5	6
Potassium ( $K_2O$ ), %, min	1	3	4	5	6
Water, %, max	0.7	0.7	0.7	0.7	0.7
Granule size:					
1–4 mm, %, min	90	90	90	90	90
Friability, %, min	100	100			

Manufactured by Dorogobuzh (Smolensk region)



THE BEST RUSSIAN AGRIBUSINESS  
HOLDING COMPANIES USE  
ACRON PRODUCTS



## Kubris Agribusiness Company (Krasnodar Krai)

The most advanced rice producer  
in Russia for over eight years.  
Kubris uses only Acron products.

Rice yield: **8.0–9.8** t/ha  
(Russian average – 5.7 t/ha)  
Total yield: **30,000** t  
Total cultivated area: **5,083** ha  
Own warehouse capacity: **25,000** t  
Main crops: wheat, rapeseed, rice and sunflower

“Acron Group’s ammonium nitrate and NPK offer high quality at competitive prices, so the Group is one of our biggest and most reliable partners.

**Sergey Pivovarov**  
Head of Procurement Department  
MC NAPCO, Russia

“When we use Acron’s ammonium nitrate, we get a bumper crop and ensure the quality and environmental sustainability of our products.

**Irina Sotnikova**  
Deputy Director General  
Prodimes-Holding, Russia

“Perfect quality, excellent customer care, mutually beneficial cooperation, superior results: Acron’s complex fertilisers help Chinese farmers earn more money!

**Lu Lixin,**  
President Jiangsu Sunong  
Agricultural Material Chain Group Co., Ltd, China

“Thanks to the high quality of Acron Group’s fertilisers, Colombian delosAndes coffee cooperative cultivates the best coffee in the world; our productivity increased 15% since we started applying Acron’s fertilisers.

**Jose María Restrepo Ramirez**  
President  
delosAndes Cooperativa

“The ammonium nitrate is top quality!

**Marcelo Simionato**  
Managing Director  
FITCO International S.A., Brazil

“The high total concentration of nutrients in Acron’s NPK 16-16-16 delivers a significant increase in yields and makes this three-component fertiliser convenient and cost-effective.

**Viktor Esaulenko**  
Chief Agronomist  
BEZRK-Belgrankorm Holding

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