

Information about the main products produced and their volumes of Almalyk MMC JSC

№	Product Name	Standard	Mark	Application range:	Form and packing:
1	Copper cathodes	GOST 546-2001	brand M00к, Cu – 99.99% brand M0к, Cu – no less than 99.97% brand M1к, Cu – no less than 99.95%	Cable and conductor products, copper based alloys production, electrical engineering, copper pipes, motor industry, roofing, etc.	Cathodes 820 mm x 850 mm x 10 mm, packed as bundles tied up with steel tape, the mass up to 1.5 tons.
2	Copper wire	TSh 64-05755737-141		The wire is intended for the manufacture of cable and wire products, as well as for other electrical purposes.	The mass of a piece of wire is not less than 40 kg.
3	Cadmium	GOST 1467-93	brand Кд0А, Cd – 99.98% brand Кд0А, Cd – no less than 99.96%	The metal cadmium is used to produce alloys for electrical engineering, machine building, for anticorrosive coating of metals, in atomic industry, and to make nonorganic coloring matters.	KThe ingot cadmium has a mass of (10.0 ± 1.5) kg, with the placing on pallets. Each ingot must be marked: trademark of the manufacturer, cadmium brand, and the lot number.
4	Zinc	GOST 3640-94	brand Ц0А, Zn – 99.98% brand Ц0, Zn – 99.975%	Galvanic coating, medicine, production of zinc-bearing alloy, production of paint and varnish items, machine building, construction, etc.	Ingots having a mass of about 25 kg, packed as piles with a mass of not more than 1000 kg and not higher than 500 mm, tied up with a steel tape.
5	Technical Tellurium	GOST: 17614-2018	Brands: •Т1, tellurium mass fraction no less than 99.3% •Т2, tellurium mass fraction no less than 96.5%	Technical tellurium is used for the production of alloys, thermoelectric materials, semiconductors, rubbers, glasses, light sources and other purposes.	Technical tellurium in powder has dark gray or black colors. Powdered tellurium of all brands must pass through a sieve with a grid accuracy of "1K" according to GOST 6613. They are packed in polyethylene bags according to GOST 17811-78. The bags must be brewed and packed in cotton bags and placed in boxes according to GOST 5959-80. The weight of the box (gross) should not exceed 50 kg.
6	Technical selenium	GOST 10298-79	марка СТ-0, Se - 99.8% марка СТ-1, Se - 99.0%	At making semiconductors, selenides of many elements are used, such as selenides of tin, lead, bismuth, antimony, and selenides of lanthanides. Also, the glass, chemical (production of paints and enamels), and pharmaceutical industries.	The commercial selenium is produced in ingots no more than 7.5 kg, and it is shaped as truncated pyramid. The commercial selenium ingots are wrapped up in package paper and put into wooden boxes as per GOST 5959. The mass of the selenium does not exceed 50 kg.

7	Sulfuric acid	GOST 2184	brand 'Improved', brand 'Commercial'	The acid is used in the ore treatment operations, particularly at mining the rare elements; also, the production of mineral fertilizers; as electrolyte in lead accumulators; production of various mineral acids and salts; production of man-made fibers, dye stuffs, and smoke-forming and explosive materials; oil, metal-working, textile, leather, and other industries – is registered as a food additive E513 (emulsifier); industrial organic synthesis, sulfonation (synthetic detergents and intermediate products in the dye production sector), alkylation (production of isooctane, polyethylene-glycol, and caprolactam), etc.	The water-free sulfuric acid looks like a colorless transparent oily liquid, with the density 1.8305 g/cm ³ at the temperature 20° C. The sulfuric acid is shipped in special rail cisterns or by the pipeline system. When shipping the sulfuric acid in cisterns or containers, a consignment will be no more than 10 cisterns or containers, and in case of the contact improved sulfuric acid and the improved oleum – no more than one cistern or one container. When shipping the product in barrels, the lot size does not exceed 20 tons.
8	Ammonium perchlorate	GOST 31411-2009	brand AP-00 brand AP-1	Ammonium perchlorate is used to make electronic devices, and also in the space engineering and in the cracking by catalyst.	The ammonium perchlorate is a white crystalline powder, packed in plastic bags.
9	Copper sulfate	GOST 19347-99	Brand 'A' (best grade – 99.1%, first grade – 98.0%) Brand 'B' (best grade – 98.1%, first grade – 96.0%, second grade – 93.1%)	Copper sulfate is used to produce other compounds, in medicine, food industry, at making mineral paints, and in agriculture as an antiseptic, fungicide, and fertilizer.	Packaged in plastic or polypropylene bags (50 kg).
10	Zinc sulfate	Standard: TSh 48.1-57:2012	The zinc sulfate is manufactured in compliance with the requirements of TSh 48.1-57.	Used at the production of viscose, mineral paints, glazes, in the metallurgy and concentration (flotation agent), medicine, agriculture, as well as in accumulators and chemical energy sources.	The commercial zinc sulfate is granules, a powder or a white-colored mixture. Packaged in sacks (50 kg) or 'big-bags'.
11	Zinc powder	GOST 12601-2005	The zinc powder is made according to requirements of GOST 12601 class B, brand ПЦ6.	For cementation when recovery of non-ferrous and noble metals.	The zinc powder has light-gray or gray color. The zinc powder is packed in special airtight packages: metal containers, drums made as per design documentation of the manufacturer, and flasks as per GOST 5799 of the ФС or ФЦ type, or as per GOST 5037 of the ФА or ФЛ type.
12	Zinc oxide	GOST 202-84	brand BS 1	For manufacture of paintwork materials, asbestos articles, imitation leather and sole rubber.	Packing – 25 kg in polypropylene bags with polyethylene stuffer.