








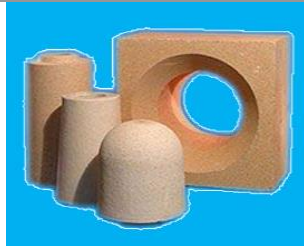
List of products manufactured by RPA for the production of rare metals and hard alloys


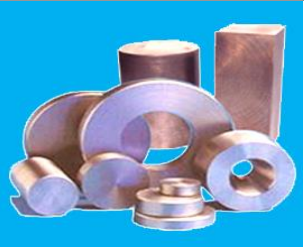

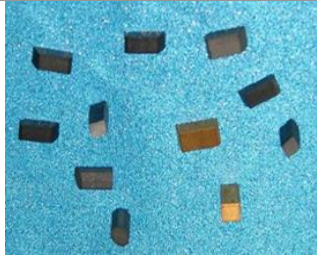
JSC "Almalyk MMC"

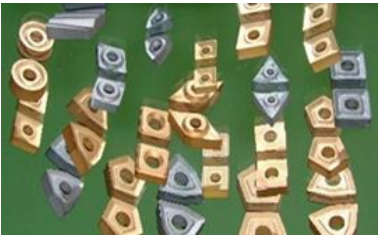


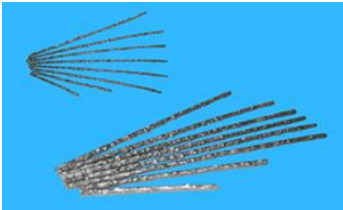
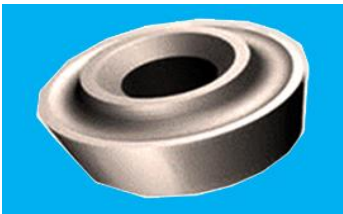
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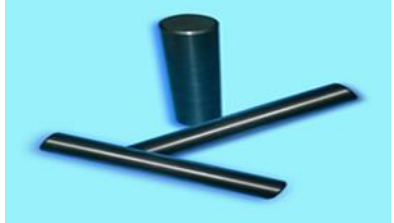
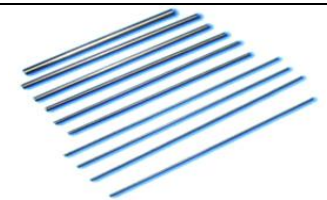

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Item No.	Product Name	Technical parameters of informational importance to the consumer		Scope of products	Photos, drawings of common products
Molybdenum products					
1	Metal Molybdenum in the form of sintered briquettes	Ts 00193950-087:2018	Mass fraction of molybdenum: for grade 1 - not less than 96.942%, for grade 2 - not less than 96.252%	for alloying high-temperature high-alloy special steels	
2	Molybdenum metal in the form of billets	O'z Dst 3209:2017	Mass fraction of molybdenum is not less than 97.062%,	for alloying high-temperature high-alloy special steels	
3	Molybdenum trioxide	TU 48-19-134-85	Mass fraction of molybdenum not less than 66.437%	used as a raw material for the production of metallic molybdenum	
Ceramic products for various needs					

Item No.	Product Name	Technical parameters of informational importance to the consumer		Scope of products	Photos, drawings of common products
4	Fire-resistant heat-insulating chamotte bricks ShB-1 brand, ShT-0,9, ShA-9	GOST 8691-73 GOST 390-96 GOST 5040-2015	ShB-1 size 230x114x65mm, ShT-0.9 size. 230x140x65mm, ShA-9 size. 300x150x65mm	Products are used for laying different thermal units with a maximum application temperature of 1250-140050C	
5	Acid-resistant tiles fireclay brand PP-6 KP acid-resistant brick	GOST 961-89 GOST 474-90	Size 230x113x (20-50) Acid resistance 97.0-98.0% Size 230x113x65 Acid resistance 97.5%	Products are intended for lining equipment operated under the influence of aggressive substances.	
6	Acid-resistant ceramic nozzles (Raschig rings)	GOST 17612-89	Dimensions: diameter and height - 50mm, 25 mm; wall thickness - 5 mm, acid resistance not less than 98.5%, water absorption not more than 0.5-1.5% "	Acid-resistant ceramic nozzles are designed to fill nozzle columns and other heat and mass transfer equipment operating at a temperature of 0 ° to 120 ° C for acidic media and from 0 ° to 30 ° C for alkaline	
7	Saddle nozzles type "Intallocks"		Nominal size 37,50,75 mm, $\alpha = 180^\circ \pm 15$, acid resistance not less than 98.5%, water absorption not more than 0.5-1.5%, alkali resistance not less than 55%, compressive strength not less than 115 MPa		
8	Refractory stopping products for casting steel from a ladle	GOST 5500-2001	Mass fraction of Al_2O_3 not less than 32-37%; refractoriness is not lower - 1710 °C, open porosity is no more - 20-22%, the temperature of the beginning of softening is not lower than 1350°C	refractory stoppers for casting steel from a ladle - stop tubes, corks, glasses, liners	

Item No.	Product Name	Technical parameters of informational importance to the consumer		Scope of products	Photos, drawings of common products
9	Refractory products for siphon steel casting	GOST 11586-2005	Mass fraction of Al_2O_3 not less than 28-32%; fire resistance is not lower - 1670-1690 °C, open porosity is no more - 15-26%, residual size change when heated at a temperature of 1350°C no more than 0.4-0.5%	refractory locking products for siphon casting of steel into casting forms and molds, as well as intermediate funnels with cups for casting on top	
Other products					
10	Ingots of tungsten-copper alloy BM brand	TU 48-19-38-86	Mass fraction of copper in the alloy is 15-25%, the rest is tungsten	for use in electrovacuum production and for electroerosion processing of hard-alloy molds	
11	Soldered brand BK	GOST 19043-80, GOST 19069-80, GOST 25395-90, GOST 25414-90, GOST 9453-75, GOST 880-95 and others	Mass fraction of the main components in the mixture of powders according to GOST 3882-74	for all types of metalworking, woodworking, tools, all types of materials to be processed, using soldering	
12	Soldered brand TK				
13	Hard-alloy products for mountain tools VK brand			for exploration studies in mining, tunnel construction, hydraulic structures, blasting operations, drilling wells	

Item No.	Product Name	Technical parameters of informational importance to the consumer		Scope of products	Photos, drawings of common products
14	Replaceable many-sided brand BK, TK			for production of the working part of tool, the plates are characterized by a large number of cutting edges, high replacement speed, accuracy and the possibility of flexible tool selection hard alloy solder plate brand VK8	
15	Drills with carbide brazed plate for perforator, dia. 6mm, 8mm, 10mm, 12mm	according to drawings and customer requirements	hard alloy solder plate brand BK8	for construction and repair work, used for drilling holes in various materials by rotational, reciprocating motion of the tool used, to create holes in high-strength steel products	
16	Production and restoration of drill bits	according to drawings and customer requirements		For drilling oil and gas wells	
17	Composite surfacing rod	according to drawings and customer requirements		for the formation of cutting and rubbing surfacing on a milling tool used during repair work in oil, gas and exploration wells	
18	Cup cutter from hard alloys grade BK, TK, polished	according to drawings and customer requirements		designed for handling railway wheelsets	

Item No.	Product Name	Technical parameters of informational importance to the consumer		Scope of products	Photos, drawings of common products
19	Thermoelectric converter TXA (resistance thermometer)	according to drawings and customer requirements		to measure the temperature of various industrial facilities, as well as in various control loops and automatic control in production	
20	Electrodes for contact welding brand BM (tungsten-copper)	according to drawings and customer requirements		for spot resistance welding when connecting the smallest parts of electronic devices, for welding steel structures in mechanical engineering and other industries	
21	Hard-alloy polished fingers brand BK6	according to drawings and customer requirements State Enterprise Almalyk MMC		Non-standard product, used for crushing the fourth stage of mountain ore	
22	Yttrated tungsten rods (tungsten electrodes) brand SVI-1	TU 48-19-221-83	Mass fraction: molybdenum-0,040 iron-0,007 aluminum-0,005 silicon-0,010 calcium-0,010 nickel-0,005	for argon welding of active metals in an inert gas atmosphere (argon, helium or mixtures thereof)	
23	PC-14 type cutter with hard-alloyed wafer type BK-8	according to drawings and customer requirements (Unitary Enterprise "Dehkanabad Potash Fertilizer Plant"). The quality of grades of cemented carbide meets the requirements of GOST 3882-74		for heading and refining combines working on the layers of potash ore and rock salt with resistance to cutting up to 450N / mm	

Item No.	Product Name	Technical parameters of informational importance to the consumer	Scope of products	Photos, drawings of common products
24	Hard-alloy portages (dies) brand BK	according to drawings and customer requirements the quality of hard alloy grades meets the requirements of GOST 3882-74	for drawing wire and round bars of various sizes, used for metal deformation by stretching through a narrowing channel of different profiles, are distinguished by versatility and speed of tool replacement	

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