



KUZOCM

For those who
choose quality

kuzocm.ru

RELIABLE SUPPLIER AND PRODUCER



NON-FERROUS METAL WORKING PLANT

Is included on the list of systematic enterprises of the Russian Federation

г. Каменск-Уральский



1942

IS THE YEAR OF THE
PLANT FOPUNDATION

JSC «Kamensk-Uralsky non-ferrous metal working plant»

№ 1

for non-ferrous metal
products in Russia

~1000

people are employed in
the factory

>83

years of experience in
metal processing

the 2nd

largest producer of
aluminum powders in the
market

>1000

equipment units



own accredited testing
analytical center:



Reliability that is **easy**
to check

>135
million US dollars

annual revenue

>16
million US dollars

net assets



Possibility to conduct field
audits



customer testimonials

kuzocm.ru

MAIN PRODUCTS

You may find the full product list and specifications on the website www.kuzocm.ru

16 000

standard sizes

>160

alloys

■ copper

■ nickel

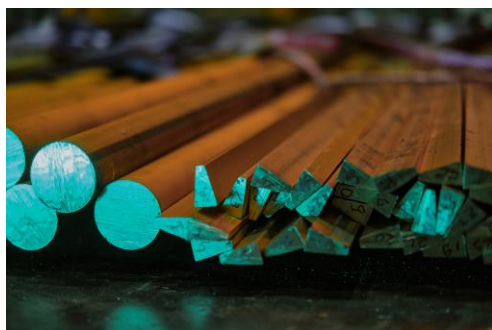
■ zinc

■ brass

■ bronze

■ Copper -
nickel

■ aluminum



Billets, rods, bars & profiles

sizes	Ø	min	max
		3 mm	400 mm

Application:

- For stamping, extrusion;
- As charge material to produce bushings;
- electric contactors and components of electrical networks;
- parts for sanitary utility systems;
- metal fasteners, bearings, nuts, etc.



Bus-bars

sizes	min	max
	2 mm	120 mm

Application:

- installation of main and trolley busways, power distribution equipment, linear accelerator and electronic devices.



Wire

sizes	Ø	min	max
		0,1 mm	12 mm

Application:

- welding electrode;
- winding of power generator;
- cable core;
- components in appliances;
- mesh in filters.



Aluminium powders and pastes

Particle sizes	Ø	min	max
		0 MKH	2000 MKH

Application:

- production of ferroalloys and refractory materials;
- gas former in the production of aerated concrete;
- for pyrotechnic mixtures;
- as paint pigments.



Wire for metallization

material	Zinc Z1	
Section	Round	
Zinc content	99,99%	
Limit deviations	0,005 mm	

sizes		min	max
		0,8 mm	4,5 mm

Winding options

- spool (5 to 10 kg)
- coil (up to 80 kg)
- barrel (up to 400 kg)

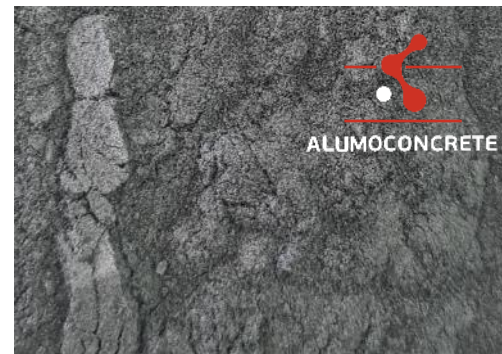


EDM wire
BRASSTON®

material	CW508L (CuZn 63/37)	
Tensile strength, N/mm2	500-1000	
Elongation	not less than 1,5%	
Electrical conductivity	22,6% IACS	
Coating	uncoated	

sizes		min	max
		0,17 mm	0,45 mm

- Compatible with EDM machines from different manufacturers
- High strength and electrical conductivity
- Always in stock

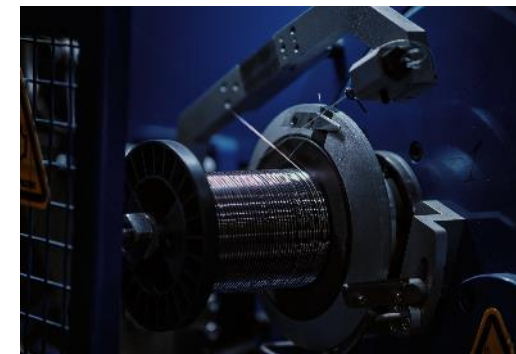


Paste for aerated concrete
ALUMOCONCRETE®

material	aluminum	
Aluminum content, %	65 – 95%	
Granulometric composition, d50, mic.	from 5 mic.	
Package	25 kg bags	

Particle sizes	min	max
	5 mic.	35 mic.

- Safe (does not produce dust and has a low fire hazard class)
- Homogeneity of composition ensures stable kinetics of gas emission
- Technical support



Coated wire

core / coating	copper / indium-tin; tin-bismuth and others	
Section	Round	
Coating size, mm	up to 0.05	

sizes		min	max
		0,2 mm	0,4 mm

- Designed for soldering
- Other coating options are possible
- Winding on coils

PROMISING PRODUCTS



Precision alloys

material	nickel based alloys
Products	Billets, rods, wire
Alloys	Alloy K-500, INCONEL 713C, 718, 625; heat-resistant alloys
sizes	Ø min max 0,8 120,0 mm mm

Consumer industries:

- Transport engineering;
- Oil production equipment (pumping);
- Aircraft engineering



Brass and copper pipes

material	brass and copper
Method of manufacture	pressing
sizes	Ø min max 20 120 mm mm
Consumer industries:	▪ Automotive industry ▪ Production of electrical fittings



Large-size rotation bodies

material	copper and copper alloys
Technology	Centrifugal casting
Products	Bushings, sleeves, liners
sizes	Ø min max D from 150 mm up to 485 mm D from 115 mm up to 450 mm L to 700 mm

Consumer industries:

- Production of bearings
- Transport engineering



Fittings and forgings

material	copper and copper alloys
Maximum overall dimensions, mm	115x100x70
Maximum bar size for stamping	d50 / L150
Forms	
Consumer industries:	▪ Automotive ▪ Plumbing

MATERIALS FOR WELDING



Special Welding Alloys

Suitable for welding:

- copper
- brass
- bronze
- copper-nickel
- cast iron
- steel
- aluminum

A range of welding wires and electrodes designed for:

- automatic welding;
- semi-automatic welding (MIG/MAG);
- manual welding in the form of inert gases (TIG)



WIRE:

sizes: from 1,2 mm to 6,0 mm
types of coils: K200, D200, BS200, D300

ELECTRODES:

the length of the segments is from 0.3 to 1.0 meters



Alloys:

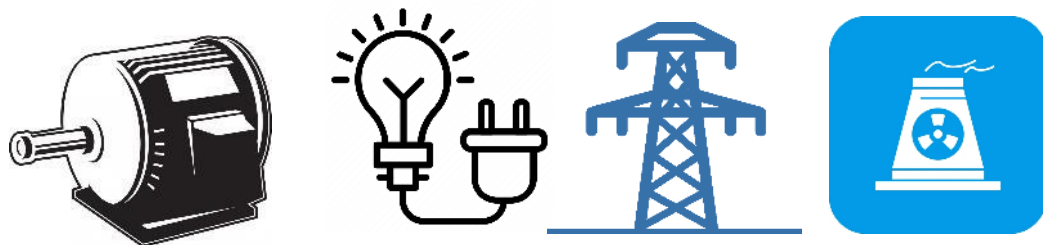
- the base is copper: CuETP, CuNiFeSiTi, CuCr1, CuAl9Mn2, CuAl10Fe3Mn2, CuSi3Mn, CuSn4Zn3, CuSn6, CuZn37, CuNi18, CuAl9Fe4Ni5Mn1, CuZn20Si, CuZn40Sn, CuSi3, CuNi40Mn
- the base is nickel: Ni5Mn3Cu0.3Si (NiFe)
- the base is aluminium: AlMg (ER-5356)

The products of JSC "KUZOCM" are used in many major industries:

Transport engineering



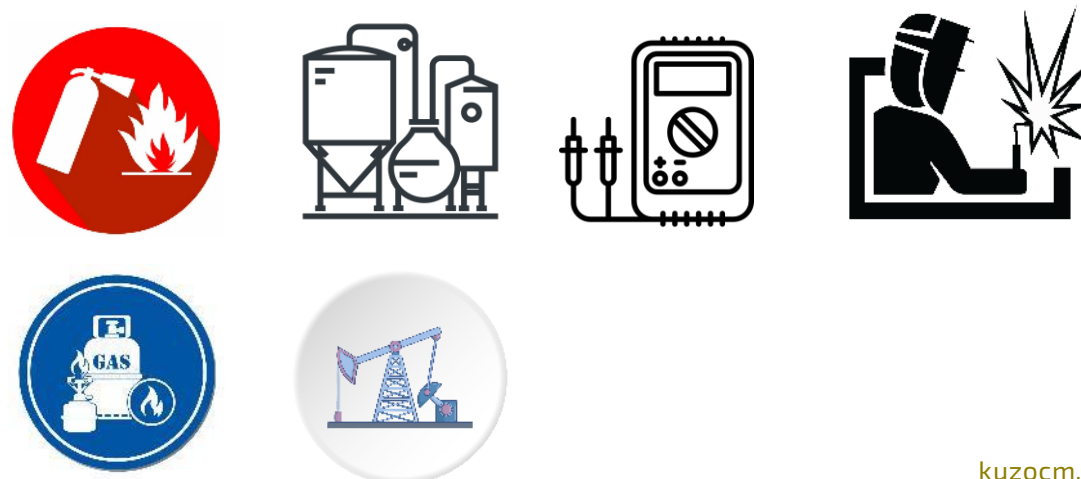
Energy industry



Construction



Mechanical engineering



QUALITY CONTROL

KUZOCM has the following equipment for quality control :

- chemical composition control laboratory
- laboratory for control of physical and mechanical properties and metallography
- metrology laboratory

Kamensk –Uralsky Non-Ferrous Metal Working Plant

Kamensk –Uralsky Non-Ferrous Metal Working Plant



- Certified laboratory
- Elemental analysis of metal products
- from copper, nickel, iron and alloys based on them:
 - ✓spectral and X-ray fluorescence methods
 - ✓Chemical methods
 - ✓IR spectrometry methods
- Mechanical tests
- Physical tests
- Metallographic tests



The products are certified



JSC KUZOCM is interested in purchasing of the following new equipment:

Foundry equipment



Equipment type:

- DC arc furnaces (6 tons per day)
- Rotary furnaces (6 tons per day)
- Horizontal casting units (6 tons per day)
- Vertical casting units (6 tons per day)
- Electroslag remelting furnaces (3 tons per day)
- Vertical casting crystallizers (6 tons per day)
- Reverberatory furnaces (12 tons per day)
- Billet cutting saws (20 tons per day)

Metalworking equipment



Equipment type:

- Drawing machines to obtain products in different sections
- Drawing machines with ordered winding into coils
- Protective atmosphere drawing furnaces
- Centerless lathe for surface cleaning
- Rewinding units for winding welding wire into coils
- Conveyor packaging line for coil packaging
- Fine drawing lines
- Drawing lines with roller dies and flattening
- Straightening and cutting line
- Cold rolling mills for tubes
- Cold rolling mills for strips
- Module machines
- Hydraulic tube presses and press equipment
- Mills for processing aluminum powder

Laboratory equipment



Equipment type:

- Oxygen, nitrogen, hydrogen analyzer
- Equipment to determine the temperature coefficient of linear expansion for precision and heat-resistant alloys
- Furnace for samples annealing in vacuum or protective atmosphere
- Equipment to determine the inflection point temperature
- Determination of frost resistance of rods and wire

We are ready to provide detailed technical specifications for each type of equipment upon request

JSC «Kamensk-Uralsky non-ferrous metal working plant»

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