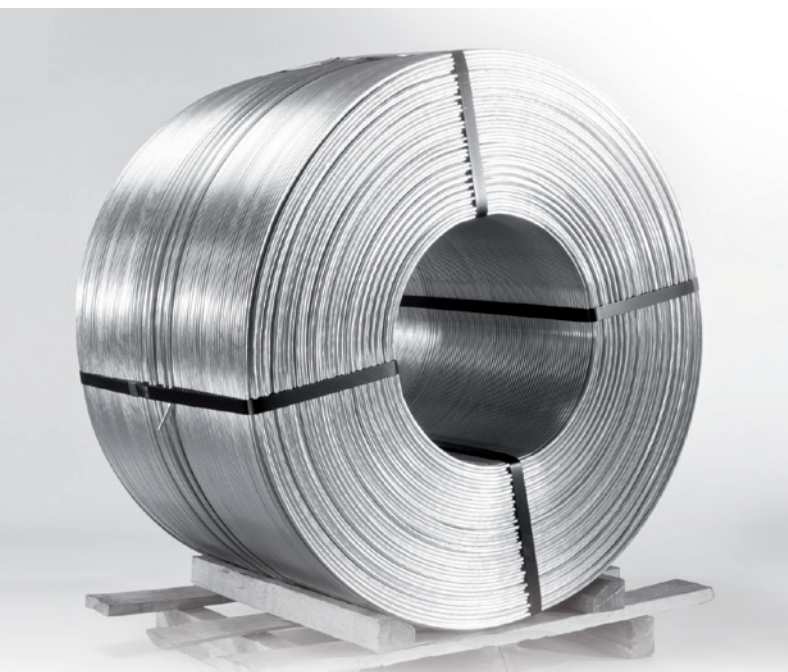


NPA

SKAWINA

modern aluminium products



BEST HI-TECH ALUMINIUM ALLOYS



NPA Skawina

is a manufacturer of aluminium wire rod and a range of aluminium alloys commonly used by many industries, such as: electrical power engineering, electrical engineering, automotive, construction, welding, and food industry. For the purposes of electrical power and electrical engineering, there are types and alloys of aluminium produced in the following series: 1xxx, 6xxx, 8xxx, and AlZr alloys, which NPA Skawina uses to manufacture wire rods, wires, conductors for insulated cables, and overhead conductors. Automotive, construction, welding, and food industry use aluminium alloy wire rod series: 1xxx, 3xxx, 4xxx, 5xxx, 6xxx, and 8xxx, which are used to produce: pipes, cables, welding wires, lightning protection wires, and wires for packaging.

The offer

of NPA Skawina includes aluminium alloys with the addition of zirconium. AlZr (aluminium-zirconium) alloys are used in the construction of specialist HTLS conductors. These materials are characterized by higher temperature of the safe long-term operation, in comparison to the traditional solutions. This reflected in a significant increase in power transmission capacity, which makes HTLS conductors to be widely used to increase the safety of the power system (reduce risk of a blackout).





For the production of wires and conductors, NPA Skawina uses its own wire rod with an optimum mechanical and electrical properties. The production process is based on modern drawing machines using tools (dies) made of polycrystalline diamond. This ensures perfect surface quality, as well as keeping to dimensional tolerances of produced wires.

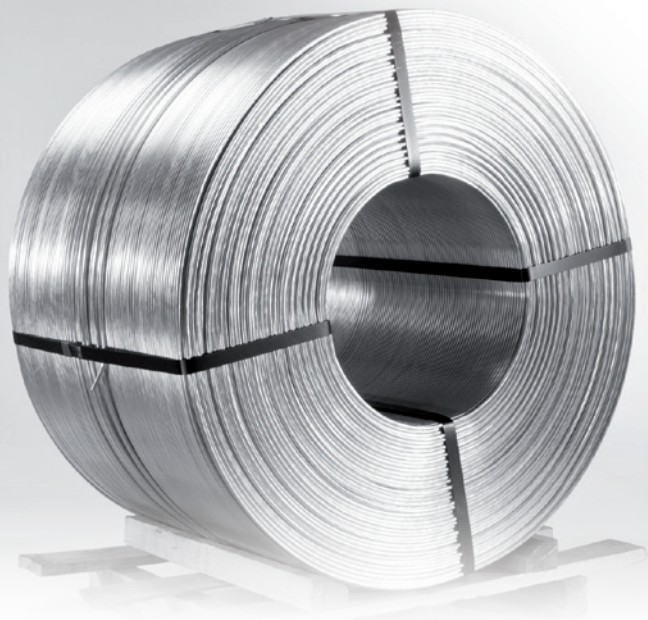
NPA offers: aluminium wires, aluminium alloy wires, lightning protection wires, lightning protection wires PVC or HFFR coated, and wires intended for food purposes.

Conductors are manufactured in accordance with international standards, or specific customer requirements. Modern machinery allows us to produce overhead conductors, and aluminium, or aluminium alloy conductors for insulated cables with sections ranging from 16 to 1200 mm². Our offer includes such conductors as:

- Aluminium Conductors Steel Reinforced (ACSR)
- All-Aluminium Conductors (AAC)
- All-Aluminium Alloy Conductors (AAAC)
- High temperature and low sag conductors (TACSR, ZTACSR, ACSS, TACIR, ZTACIR, GTACSR, GZTACSR).

The portfolio of products has also increasingly popular flexible aluminium conductors — used in the automotive industry, wind farms, and for other special applications. Weight reduction in car cables is a key aspect in the design of modern vehicles. The use of cables with an aluminium core the weight of a cable by up to 50%, while maintaining the same electrical conductivity. Range of nominal cross-sections produced wires is 0.75–500 mm².





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