



## JSC Solikamsk Magnesium Works - History in Brief

- 14 March 1936: first ingot of primary magnesium metal was produced by the Company. This historical date is fairly considered as the Date of Birth of Solikamsk Magnesium Works (SMW)
- 1939: SMW had started production of alloy magnesium for aircraft industry
- 1946: the Experimental Plant was founded, - the first experimental plant inside an operating facility in the Non-ferrous Industry of the Soviet Union. All of the main basic technologies recently utilized by CIS magnesium and titanium companies and Israeli DSM were developed here
- 1962-1966: A proprietary technology to produce Mg-Zr master alloy and MZr1N3 magnesium super alloy was implemented to source the Soviet Space Program and Aircraft Industry
- 1971: Rare Metals Operations were brought on stream with use of chlorine generated in Magnesium Operations as the main reagent to process loparite and other raw materials in these operations
- 1977: a line to separate niobium pentachloride out of tantalum pentachloride with production of technical grade niobium pentoxide was put into operation
- 1983: a line to produce optoelectronic grades of tantalum and niobium compounds was brought on stream
- 1985: SMW was awarded with the Order of Great Patriotic War 1941-1945 recognizing importance of SMW's supply for Soviet Army and Navy to win the War
- 1992: state-owned enterprise Solikamsk Magnesium Works was transformed into joint-stock company Solikamsk Magnesium Works (hereinafter referred to as "SMW", "Solikamsk", or "the Company")
- 1996: in joint venture partnership with Almamet GmbH, Germany, a plant to produce magnesium granules, powders and mixes for desulfurization of iron and steel – Solikamsk Desulfurizers Works OOO (SZD) - was brought on stream. This event pushed mass introduction of desulfurization process in the Russian Steel Industry
- 2000: a line to produce rare earths carbonates was brought into operation; the first ISO 9001 certification
  - 2009: the first 1'000'000th ton of magnesium metal was smelted by SMW; the first stage of titanium sponge project was brought on stream with capacity 2'500 tons per year out of total projected capacity of 5'000 tons per year
- 2010: the first ISO 14001 certification
- 2014: facility to process by-products of Magnesium Operations was brought on stream
- 2016 - 2017: facilities to produce granular potash and fluxes were brought into operations; production of new products was developed: new grades of magnesium creep resistant alloys for elevated temperature applications; master alloys with rare earths; lithium niobate and tantalate; calcium – strontium carbonate

Solikamsk is a modern, continuously developing company which gradually increases the range of products with enhanced features and keeps leading positions in Magnesium and Rare Metals Industries of Russia accounting for, virtually, 100% output of tantalum, niobium and rare earths chemicals, more than 60% of commodity pure & alloy magnesium metal and 4-5% of titanium sponge production in the country, with Integrated Management System conforming to appropriate international standards and requirements.