

Microstructure and functional characteristics of anodes of tantalum condensers of new generation

© **Sergey P. Starostin,¹ Leopold I. Leontev,^{2*} Victor A. Kostylev,³
Vyacheslav V. Lisin,² Robert G. Zakharov,² and Sofya A. Petrova²⁺**

¹ *Department of tantalum condensers. Public corporation "Elekond". Kalinina St., 3. Sarapul, 427968. Udmurt Republic. Russia. Phone: +7 (34147) 2-97-78. E-mail: spstarostin@mail.ru*

² *Laboratory of physical chemistry of metallurgical melts. Institute of metallurgy. Ural brunch of RAS. Amundsen St., 101. Ekaterinburg, 620016. Russia. Phone: +7 (343) 267-88-94. E-mail: danaus@mail.ru*

³ *Tantalum technologies Ltd. Lenin St., 131. Verkhnyaya Pyshma, 624096. Sverdlovsk region. Russia. Phone: +7 (343) 373-26-46. E-mail: nauka@k66.ru*

*Supervising author; +Corresponding author

Keywords: *tantalum, condenser, nanocrystalline powder, electrochemical process.*

Abstract

The surface microstructure and electric characteristics of anodes of tantalum condensers, obtained from electrochemically agglomerated tantalum nanopowders, depending on characteristics of the initial powder and anode production conditions (sintering temperature, bundle and etc.) is investigated.