

Article

The Impact of Particle Reinforcement with Al_2O_3 , TiB_2 , and TiC and Severe Plastic Deformation Treatment on the Combination of Strength and Electrical Conductivity of Pure Aluminum

Ilya A. Zhukov ^{1,2}, Alexander A. Kozulin ¹, Anton P. Khrustalyov ^{1,*}, Alexey E. Matveev ¹, Vladimir V. Platov ¹, Alexander B. Vorozhtsov ^{1,2}, Tatyana V. Zhukova ¹ and Vladimir V. Promakhov ¹

¹ Faculty of Physics and Engineering, National Research Tomsk State University, Lenin av. 36, Tomsk 634050, Russia;

gofra930@gmail.com (I.A.Z.); kzn2015@yandex.ru (A.A.K.); cool.mr.c@mail.ru (A.E.M.); vova.platov.85@mail.ru (V.V.P.); abv@mail.tomsknet.ru (A.B.V.); zhu-tanya@yandex.ru (T.V.Z.); vvpromakhov@mail.ru (V.V.P.)

² Institute for Problems of Chemical and Energetic Technologies of the Siberian Branch of the Russian Academy of Sciences, Socialisticheskaya st. 1, Biysk 659322, Russia

* Correspondence: tofik0014@mail.ru; Tel.: +7-9521-555-568

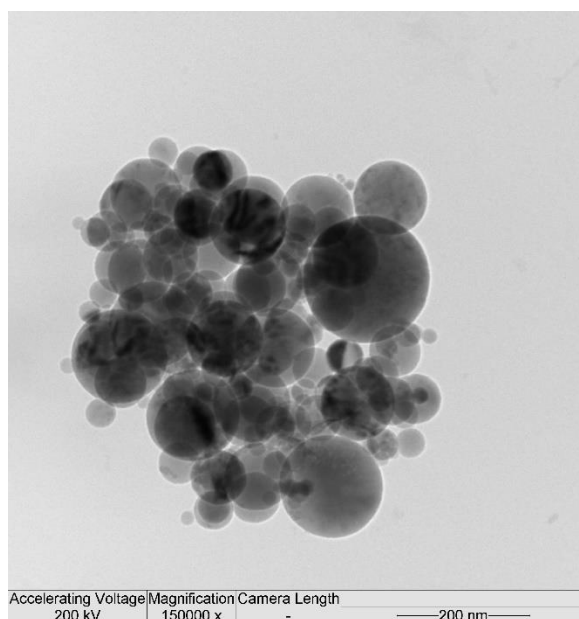


Figure S1. An TEM image of the Al_2O_3 powder.

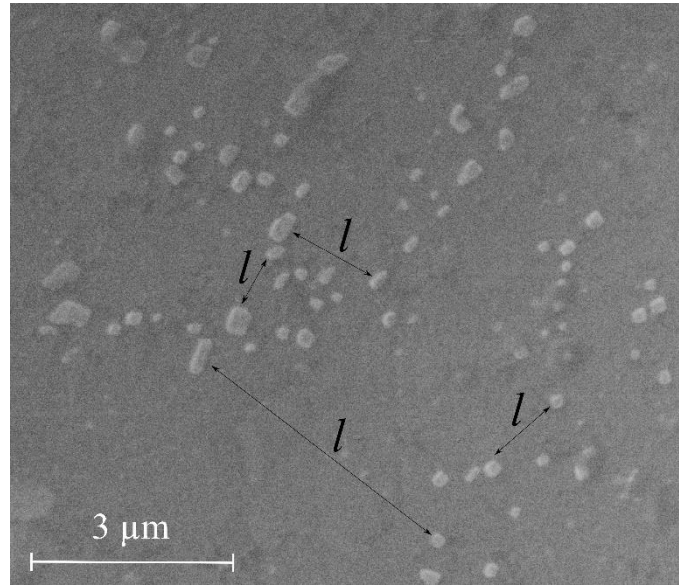


Figure S2. An SEM image of the Al-TiB₂ alloy (ii) after four SPD cycles.