

# NEW TYPE BIOACTIVE COMPOSITES AND THEIR APPLICATION FOR BIOCORROSION PROTECTION OF SYNTHETIC AND NATURAL MATERIALS

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## Summary

Antibio-corrosive coatings based on bioactive adamantane-containing hydrazide-hydrazone coordination compounds of some transition metals and various polyurethanes non-modified and modified by silicon-organic oligomers were obtained. Tribological properties of the created antibio-corrosive coatings have studied. The obtained results have explained in terms of surface morphology were seen by the scanning electron microscopy. The friction values for all antibio-corrosion coatings based on modified polyurethanes are lower than for non-modified one.

**axal i tipis bioaqtiuri kompozitebi da maTi gamoyeneba  
sinTezuri da bunebrivi masal ebis biokoroziul dacvaSi**

reziume

x. barbaqaZe, n. I ekiSvili

iv. j avaxiSvilis saxel obis Tbilisis saxel mwi fo universiteti

gardamaval i metal ebis karbocikli uri hidrazid-hidrazonul i koordinaciul i naerTebisa da aramodificirebul i da siliciumorganul i oligomerebiT modifizirebul i poliureTanebis bazaze miRebul iqna axali, efeqturi da mdgradi araorganul -organul i antibiokoroziul i damcavi safrebi. Seswavi il iqna damzadebul i antibiokoroziul i damcavi safrebis tribologiuri Tvisebebi. dadginel iqna, rom dinamiuri xaxunis koeficientis mniSvnel oba maRal ia aramodificirebul i poliureTanebis SemTxvevaSi. el eqtronul i mikroskopiT gadaRebul i nimuSebis zedapiris optikuri gamosaxul ebebis meSveobiT miRebul i damcavi safrebis zedapiris morfologiis Seswavi am daadastura miRebul i Sedegebi. winaswari gamokvl ebebiT dadgenil iqna, rom modifikacia SeiZleba gamoyenebul iqnas poliureTanebis bazaze miRebul i antibiokoroziul i damcavi safrebis tribologiuri Tvisebebis gasaumj obesebl ad.