

The polyurethane composition for reconstruction of the bone tissue comprises the high molecular weight compound with the organic and inorganic additives. The composition is employed for replacing the bone defects of various origin and for manufacturing the endoprotheses. The composition comprises the polyurethane polymer with the isothiocyanate end-groups, the immunomodulating additive, the polymerization accelerator – 2,4,6-tris(dimethylaminomethyl)phenol, and hydroxyapatite added for improving the physico-chemical properties. The shear strength amounts to 2.8 kPa, the compression strength amounts to 181.6 kPa.