

Fatigue Durability of Ductile Iron in Very-High-Cycle Region

František Nový¹, Peter Kopas¹, Otakar Bokůvka¹, Adriana Savin²

¹Faculty of Mechanical Engineering, University of Žilina, Univerzitná 1, 010 26 Žilina, Slovak Republic. E-mail: františek.novy@fstroj.uniza.sk, peter.kopas@fstroj.uniza.sk, otakar.bokuvka@fstroj.uniza.sk

²National Institute of R&D for Technical Physics, Mangeron Boulevard 47, 700050 Iasi, Romania. E-mail: asavin@physiasi.ro

In this work there are published results about fatigue resistance of ductile iron with various types of matrix obtained at cyclic loading in very-high-cycle region. The results show continuous decrease of the stress amplitude with increasing of cycles number to the failure. The tensile strength increase is not accompanied with corresponding increase of fatigue properties. The fatigue durability decreases while the tensile strength increases.

Keywords: Ductile iron, austempered ductile iron, fatigue durability

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