

Material: Fe-2 % Cu-0.5 % C

iron: water atomised copper: < 150 μm,* carbon: UF4; heat treatment: density: 6,8 g/cm³ mech. properties: -

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Specimen: smooth, K_t = 1.0; ISO 3928; chamfered*; surface as sintered

Loading mode: plane bending, R = -1;

Limiting no. of cycles: 2 · 10⁵ Endurance limit: 155 MPa

Refernece: Höganäs AB; internal investigation 2003/93

*assumed from data sheet Fe-2 % Cu-0.8 % C, density 7.1 g/cm³

Stress amplitude:	141	149	150	151	159	160	161	162	170	200	231	MPa
Cycles to failure:	2000.000 2339.255	2000.000	847.227 2328.091 2760.578	1193.988	2004.472 2350.052	1563.148	647.143	516.416			28.379 38.815	- 1000