



Material:	Fe-2%Cu-0.8%C water atomized iron						
	sintering: 1130 °C, 30 min, dissociated ammonia						
	heat treatment: quenched and tempered; 850 °C 60 min; oil quench; 200 °C, 60 min						
	density: 6.85 g/cm ³						
	mech. properties: H=77 HRB, R _{p0.2} =-, R _m =498 MPa						
Specimen:	smooth, K _t =1.0, surface as sintered						
Loading mode:	plane bending, R=-1						
Limiting no. of cycles:	10 ⁷						
Endurance limit:	177 MPa (175 MPa this evaluation)						
Reference:	M. Onoda: Fatigue Strength of Sintered Structural Component Materials; Japan Powder Metallurgical Association, Tokyo, 1983 (in Japanese)						
Stress amplitude:	175	196	216	235	276	295	384 MPa
Cycles to failure:	10000.000	3999.447	414.000 6516.284	1506.607	33.729	267.301	10.162 · 1000