



Material:	Fe-2%Cu-0.8%C sponge iron						
	sintering: 1130 °C, 30 min, dissociated ammonia						
	heat treatment: quenched and tempered; 850 °C, 60 min; oil quench; 200 °C, 60 min						
	density: 6.26 g/cm ³						
	mech. properties: H=47 HRA; $R_{p0.2} = -$; $R_m = 345 \text{ MPa}$						
Specimen:	smooth, $K_t = 1.0$, surface as sintered						
Loading mode:	plane bending, $R = -1$						
Limiting no. of cycles	10^7						
Endurance limit:	118 MPa (119 MPa this evaluation)						
Reference:	M. Onoda: Fatigue Strength of Sintered Structural Component Materials; Japan Powder Metallurgical Association, Tokyo, 1983 (in Japanese)						
Stress amplitude:	119	128	137	158	197	236	275 MPa
Cycles to failure:	10000.000	5697.911	916.220	2187.762	539.511	65.917	29.309 · 1000