



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: 6.67 g/cm ³						
	mech. properties: H=72 HRFB; $R_{p0.2} = -$; $R_m = 409 \text{ MPa}$						
Specimen:	smooth, $K_t = 1.0$; surface as sintered						
Loading mode:	plane bending, $R = -1$						
Limiting no. of cycles:	10^7						
Endurance limit:	167 MPa (166 MPa this evaluation)						
Reference:	M. Onoda: Fatigue Strength of Sintered Structural Component Materials; Japan Powder Metallurgical Association, Tokyo, 1983 (in Japanese)						
Stress amplitude:	166	177	195	236	255	265	314 MPa
Cycles to failure:	10616.956	606.736 6251.727	2624.219	40.179	199.526	93.325	11.885 · 1000