



Material:	Fe-1.5 % Cu; sponge iron
	sintering: 1120 °C, 35 min, endogas
	heat treatment: -
	density: 6.28 g/cm ³
	mech. properties: H = 33 HRB; $R_{p0.2} = -$; $R_m = 207 \text{ MPa}$
Specimen:	smooth, $K_t = 1.0$; surface machined
Loading mode:	rotary bending, $R = -1$
Limiting no. of cycles:	10^7
Endurance limit:	58 MPa (56 MPa this evaluation)
Reference:	M. Onoda: Fatigue Strength of Sintered Structural Component Materials; Japan Powder Metallurgical Association, Tokyo, 1983 (in Japanese)

Stress amplitude:	56	60	71	85	98	114	127	145	MPa
Cycles to failure:	10280.160	4102.041	2060.630	829.851	398.107	153.462	68.707	16.827	- 1000