



Material:	Fe-1.5%Cu - 0.5%C; sponge iron									
	sintering: 1130 °C, 20 min, endogas									
	heat treatment: quenched and tempered; 850 °C, 30 min; oil quench; 180 °C, 30 min									
	density: 6.41 g/cm ³									
	mech. properties: H=61 HRA; R _{p0.2} = -; R _m = 496 MPa									
Specimen:	smooth, K _t = 1.0; surface machined									
Loading mode:	rotary bending, R=-1									
Limiting no. of cycles:	10 ⁷									
Endurance limit:	255 MPa									
Reference:	M. Onoda: Fatigue Strength of Sintered Structural Component Materials; Japan Powder Metallurgical Association, Tokyo, 1963 (in Japanese)									
Stress amplitude:	246	255	264	283	293	312	333	333	351	362 MPa
Cycles to failure:	10000.000	8433.348	843.335	739.605	232.274	82.414	134.276	82.414	53.211	48.195 · 1000
		10000.000	3198.895	859.014	390.841	182.360				
			1000.000							