



Material:	Fe-1.5 % Cu-0.6 % C; iron: water atomised						
	carbon: not specified; sintering: 1120 °C, 30 min, 70 % N ₂ + 30 % H ₂						
	heat treatment: 840 °C, 1h; oil 60 °C; 430 °C, 1h						
	density: 7.1 ± 0.05 g/cm ³						
	mech. properties: H = 312 HB 2.5/62.5; R _{p0.2} = 773 MPa; R _m = 810 MPa						
Specimen:	smooth, K _t = 1.0; ISO 3928; surface as sintered						
Loading mode:	plane bending, R = 0; 25 Hz						
Limiting no. of cycles:	2 · 10 ⁶						
Endurance limit:	225 MPa (decided)						
Reference:	C.M. Sonsino: Schwingfestigkeit von verschiedenen Sinterstählen und Bemessungskriterien für gesinterte Bauteile; LBF-Report No. FB-170; Fraunhofer-Institut für Betriebsfestigkeit, Darmstadt, 1984						
Stress amplitude:	222	232	241	245	251	270	MPa
Cycles to failure:	359,724	2000.000	106,162	2000.000	134,267	60,809	· 1000
	2000.000					73,277	
						77,978	