



Material: Fe-1.5 % Cu-0.6 % C; iron: water atomised  
copper: FS  
carbon: not specified; sintering: 1120 °C, 30 min, 70 % N<sub>2</sub> + 30  
heat treatment: -  
density: 6.92 g/cm<sup>3</sup>  
mech. properties: H = 122 HV10; R<sub>p0.2</sub> = 359 MPa; R<sub>m</sub> = 433 MPa

Specimen: smooth, K<sub>t</sub> = 1.0; ISO 3928; surface as sintered

Loading mode: axial; R = -1; 25Hz

Limiting no. of cycles: 2 · 10<sup>6</sup>

Endurance limit: 134 MPa (extrapolated)

Reference: C.M. Sonsino: Ermittlung anwendungsrelevanter Kenngrößen für Sintermetalle. LBF-Report No. FB-158; Fraunhofer-Institut für Betriebsfestigkeit, Darmstadt, 1981

Stress amplitude:	155	190	MPa
Cycles to failure:	83,171	11,117	· 1000
	105,674	14,688	
	118,296	34,117	
	230,659	43,149	
	381,040	45,391	