



Material: Fe-2 % Cu - 0.6 % C; iron: water atomised  
copper: - 100 mesh, carbon: graphite  
sintering: 1120 °C, 30 min, endogas with controlled carbon potential  
heat treatment: -  
density: 7.23 g/cm<sup>3</sup>, warm compacted with 0.6 % Densemix lubricant  
mech. properties: -  
Specimen: smooth, K<sub>t</sub> = 1; ISO 3928; surface as sintered  
Loading mode: axial; R = -2  
Limiting no. of cycles: 2 · 10<sup>6</sup>  
Endurance limit: -77 ± 232 MPa (-78 ± 233 MPa this evaluation)  
Reference: A. Bergmark: Materialdata för PM-Stål med Varierade Ytor och Geometrier; Jernkontorets Forskning Report, Series D, No. 763; Jernkontoret, Stockholm, 1999

Stress amplitude:	220	230	240	260	MPa
Cycles to failure:	2000.000	1243.036	226.638	153.918	- 1000
		2000.000	500.000		
		2000.000	100.099		
		2000.000			