



Material: Fe-2 % Cu - 0.8 % 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/cm³, warm compacted with 0.6 % Densemix lubricant
mech. properties: -
Specimen: smooth, $K_t = 1$; ISO 3928; surface as sintered
Loading mode: axial; $R = -1$
Limiting no. of cycles: $2 \cdot 10^6$
Endurance limit: 216 MPa (217 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:	200	210	220	230	MPa
Cycles to failure:	2000.000	536.778	693.996	565.278	· 1000
		2000.000	737.872	628.454	
		2000.000	1414.920		
		2000.000	1827.950		
		2000.000	2000.000		
		2000.000	2000.000		