



Material: Fe-2 % Cu - 0.8 % C; iron: water atomised
copper: - 100 mesh, carbon: graphite
sintering: 750 °C, 20 min, 90 % N₂ + 10 % H₂; repressed; 1120 °C, 30 min, endogas with controlled carbon potential
heat treatment: -
density: 7,36 g/cm³; double pressed, double sintered
mech. properties: -

Specimen: smooth, K_t = 1; ISO 3928; surface shot peened with Almen intensity of ca. 0.3

Loading mode: axial; R = -1

Limiting no. of cycles: 2 · 10⁶

Endurance limit: 206 MPa (208 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:	190	200	210	220	MPa
Cycles to failure:	2000.000	522.302	439.009	472.308	· 1000
		2000.000	479.675	1191.965	
		2000.000	932.179		
		2000.000	1132.006		
		2000.000	2000.000		
			2000.000		
			2000.000		