



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: 7.05 g/cm³
mech. properties: -
Specimen: smooth, K_t = 1; ISO 3928; surface as sintered¹
Loading mode: axial; R = -1
Limiting no. of cycles: 2 · 10⁸
Endurance limit: 179 MPa¹ (177 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:	162	170	178	186	194	MPa
Cycles to failure:	2000.000	177.424	322.063	496.508	343.258	- 1000
	2000.000	703.659	391.572	1548.938	376.595	
		2000.000	2000.000	2000.000		
			2000.000	2000.000		

¹With burs removed by milling, a staircase test with 8 specimens gave an endurance limit of 174 MPa.