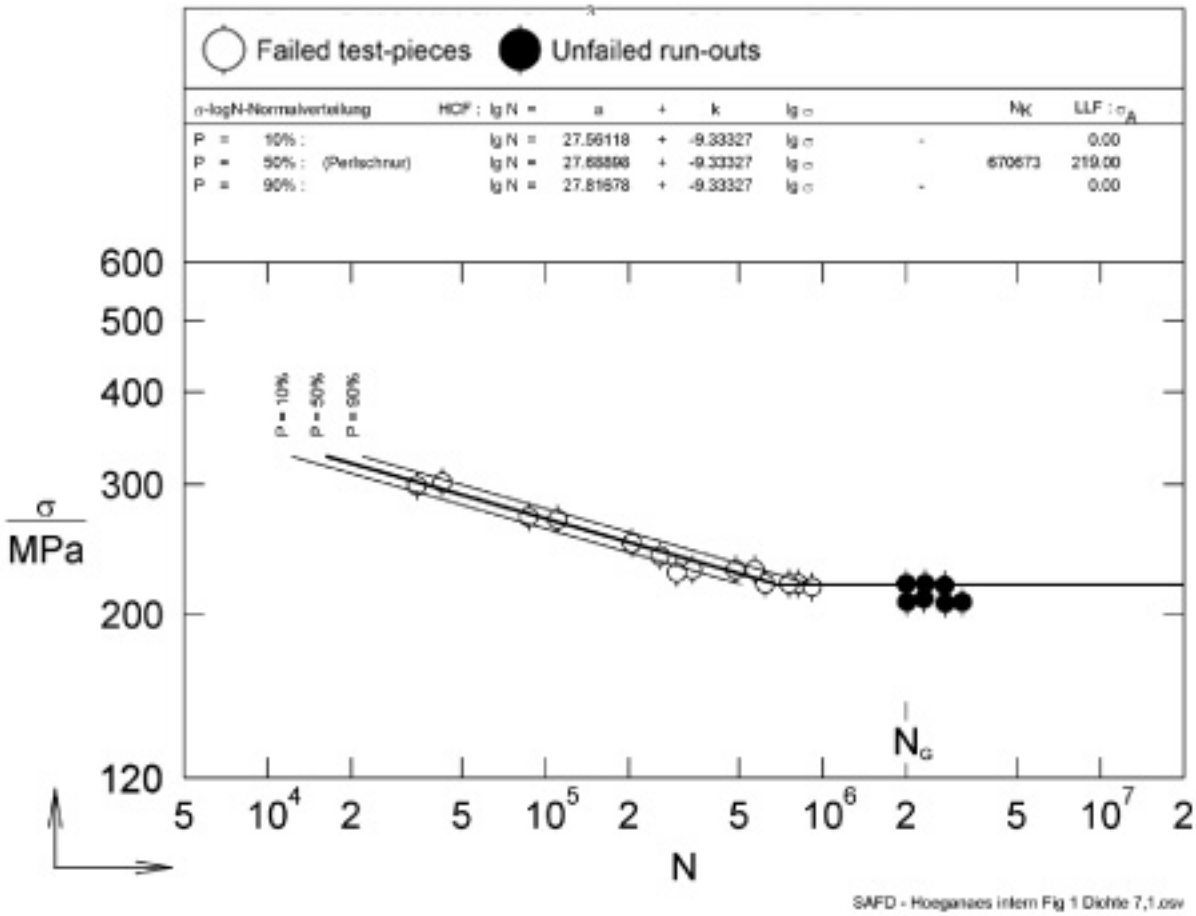

Material:	Fe-2 % Cu-0.8 % C (0.77 % C)*
	iron: water atomised
	copper: < 150 µm,*
	sintering*: 1120 °C, 30 min, 90 % N_2 + 10 % H_2
	heat treatment: 0.8 °C/s cooling rate*
	density: 7.1 g/cm^3 (7.11 g/cm^3)*
	mech. properties*: H = 204 HV 10; $R_{p0.2}$ = 474 MPa; R_m = 639 MPa
Specimen:	smooth, K_t = 1.0; ISO 3928; chamfered*; surface as sintered
Loading mode:	plane bending, R = -1; 28 Hz*
Limiting no. of cycles:	$2 \cdot 10^6$
Endurance limit:	219 MPa (211 MPa)*
Reference:	Höganäs AB; internal investigation 2003/93; part of this curve is also published in U. Engström, O. Bergman: Fatigue Strength of High Performance PM Materials; Automotive Fatigue Design & Applications, p. 40-48; MPIF, Princeton, NJ, 2003; and in O. Bergman, A. Bergmark: Influence of Microstructure on the Fatigue Performance of PM Steels; Adv. Powder Metall. & Particulate Mat.- 2003; Proc. CD, Part 7, p. 270-278; MPIF, Princeton, NJ, 2003

* from plublished references

Stress amplitude:	207	208	210	218	219	220	228	230	240	250	269	271	299	302	MPa
Cycles to failure:	2760.578	2004.472	2317.395	912.011	2742.553	619.441	297.852	339.625	259.418	204.644	110.408	87.096	34.514	42.658	· 1000
		3184.198				814.704		485.289							
						756.833		568.955							
						2000.000									
						2339.255									