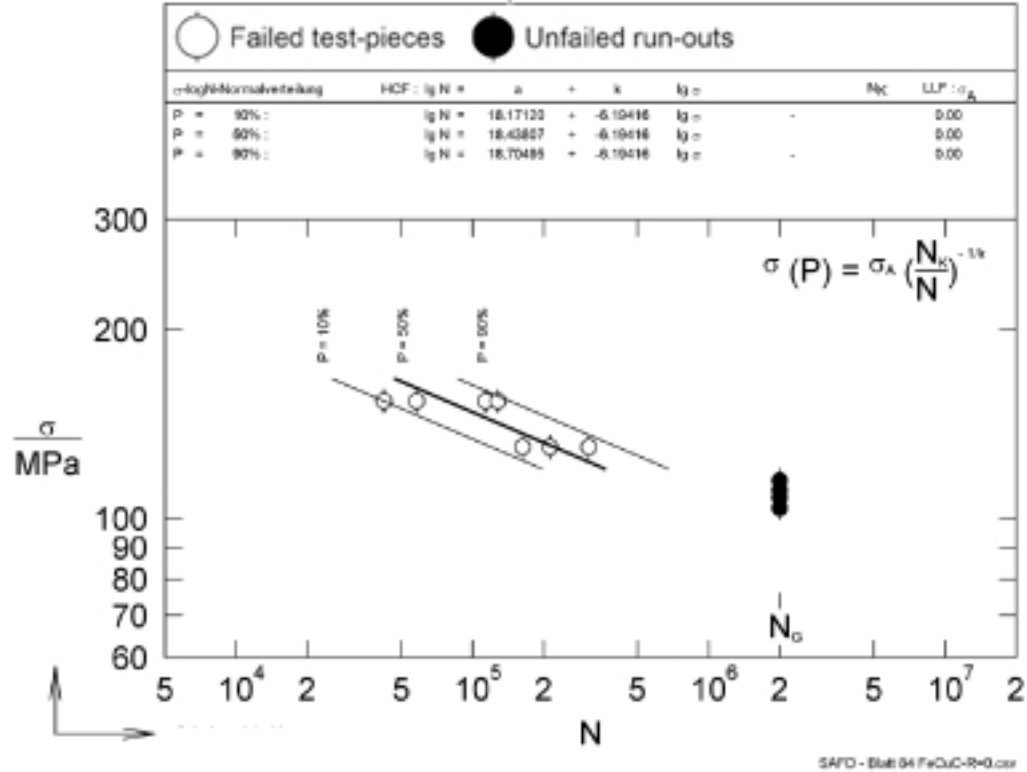

Material:	Fe-1.5 % Cu carbonitrided; iron: water atomised WPL 150
	sintering: 1120 °C, 30 min, 70 % N_2 + 30 % H_2
	heat treatment: 920 °C, 3.5 h, endogas with 0.17 % CO_2 + NH_3; oil 60 °C;
	no tempering mentioned; case depth: 0.4 - 1 mm
	density: 7.1 ± 0.05 g/cm³
	mech. properties: H = 582 HV10; $R_{p0.2}$ = -; R_m = 770 MPa
Specimen:	rectangular bar 90 x 11 x 5, central hole ∅ 2mm, hole compacted, K_t = 2.8; surface as sintered
Loading mode:	axial, R = 0; 25 Hz
Limiting no. of cycles:	$2 \cdot 10^6$
Endurance limit:	110 MPa (decided)
Reference:	C.M. Sonsino: Schwingfestigkeit von verschiedenen Sinterstählen und Bemessungskriterien für gesinterte Bauteile; LBF-Report No. FB-170; Fraunhofer-Institut für Betriebsfestigkeit, Darmstadt, 1984

Stress amplitude:	104	108	111	115	130	154	MPa
Cycles to failure:	2000.000	2000.000	2000.000	2000.000	162,918	42,167	· 1000
					212,799	58,072	
					310,435	113,755	
						128,224	