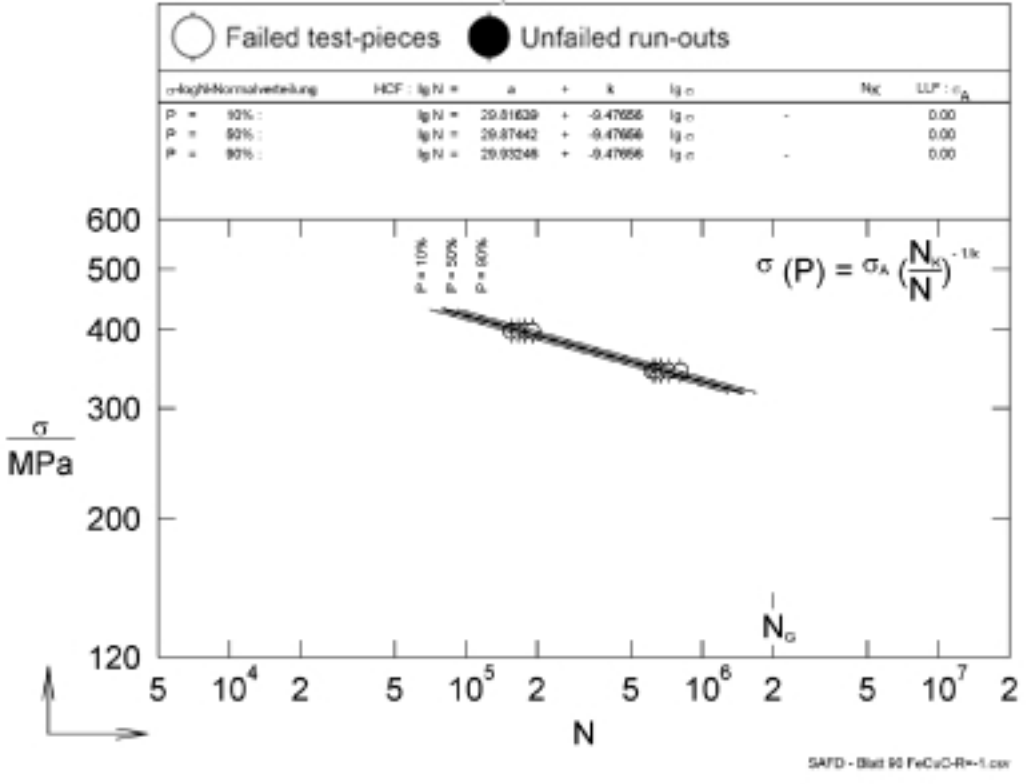

Material:	Fe-1.5 % Cu carbonitrided; iron: water atomised
	copper:
	sintering: 1120 °C, 30 min, 70 % N_2 + 30 % H_2
	heat treatment: 920 °C, 3.5 h, endogas with 0.17 % CO_2 + NH_3; oil 60 °C;
	no tempering mentioned; case depth: 0.4 - 1mm
	density: 7.1 ± 0.05 g/cm³
	mech. properties: H = 582 HV10; $R_{p0.2}$ = -; R_m = 770 MPa
Specimen:	rectangular bar 90 x 11 x 5, central hole ∅ 2mm, hole compacted, K_t = 2.0; surface as sintered
Loading mode:	plane bending, R = -1; 25 Hz
Limiting no. of cycles:	$2 \cdot 10^6$
Endurance limit:	300 MPa (extapolated)
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:	344	398	MPa
Cycles to failure:	615,134	155,586	· 1000
	636,752	166,713	
	669,838	178,226	
	717,745	190,972	
	809,040		