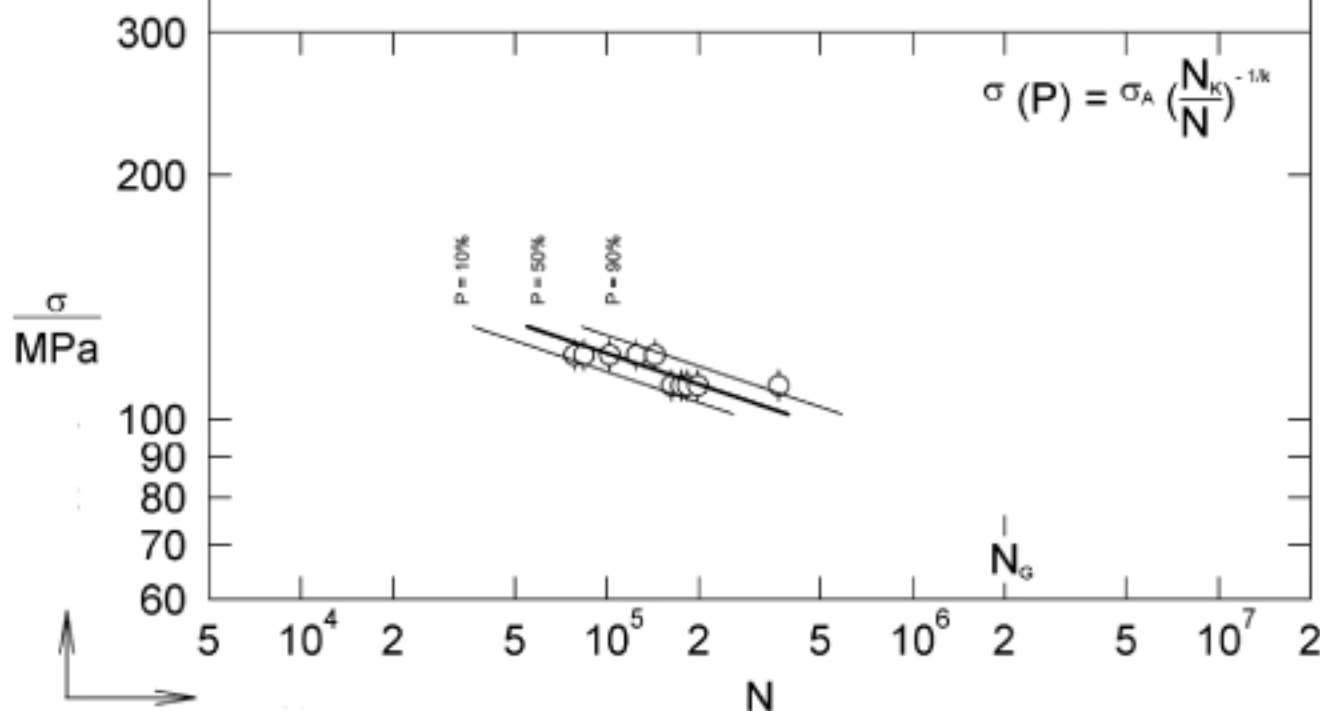


○ Failed test-pieces    ● Unfailed run-outs

$\sigma$ -logN-Normalverteilung	HCF: lg N =	a	+	k	lg $\sigma$	N <sub>K</sub>	LLF: $\sigma_A$
P = 10% :	lg N =	21.26937	+	-7.90186	lg $\sigma$	-	0.00
P = 50% :	lg N =	21.44616	+	-7.90186	lg $\sigma$	-	0.00
P = 90% :	lg N =	21.62296	+	-7.90186	lg $\sigma$	-	0.00



SAFD - Blatt 63 FeCuC-R=0.csv

Material: Fe-1.5 % Cu-0.6 % C; iron: water atomised

carbon: not specified; sintering: 1120 °C, 30 min, 70 % N<sub>2</sub> + 30 % H<sub>2</sub>

heat treatment: -

density: 6.60 g/cm<sup>3</sup>

mech. properties: H = 106 HV10; R<sub>p0.2</sub> = 263 MPa; R<sub>m</sub> = 336 MPa

Specimen: smooth, K<sub>t</sub> = 1.0; ISO 3928; surface as sintered

Loading mode: plane bending, R = 0; 25 Hz

Limiting no. of cycles: 2 · 10<sup>6</sup>

Endurance limit: 84 MPa (extrapolated)

Referene: C.M. Sonsino: Ermittlung anwendungsrelevanter Kenngrößen für Sintermetalle. LBF-Report No. FB-158: Fraunhofer-Institut für Betriebsfestigkeit, Darmstadt, 1981

Stress amplitude	110	120	MPa
Cycles to failure:	162,544	78,338	· 1000
	174,973	84,328	
	183,219	102,087	
	198,139	125,017	
	365,570	143,870	