

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

carbon: not specified; sintering: 800 °C, 30 min, 70 % N2 + 30 % H2 plus 1120 °C, 30 min, 70 % N2 + 30 % H2 (DPDS)

heat treatment: -

density: 7.4 ± 0.05 g/cm³

mech. properties: H = -; $R_{p0.2} = -$; $R_m = 500 \text{ MPa}$ smooth, $K_t = 1.0$; IS O 3928; surface as sintered

S pecimen: smooth, K_t = 1.0; ISO 3928; surface as s

Loading mode: axial, R = -1; 25 Hz

Limiting no. of cyles: 2 · 10⁶ Endurance limit: 172 MP a Reference: C.M. Son

Material:

C.M. Sonsino: Schwingfestigkeit von verschiedenen Sinterstählen und Bemessungskriterien für gesinterte

Bauteile; LBF-Report No. FB-170; Fraunhofer-Institut für Betriebsfestigkeit, Darmstadt, 1984

S tress amplitude:	171	201	218	235	MPa
Cycles to failure:	2000.000	199,054	26,301	26,852	· 1000
	2000.000	241,529		41,973	
	2000.000	297,831		66,984	
		382,798			
		405,481			
		434,480			
		475,302			
		574,077			