

Fe-3 % Cu; water atomised iron Material: sintering: 1120 °C, 35 min, endogas

Specimen: Loading mode:

Reference:

Limiting no. of cycles:

heat treatment: -

density: 6.89 g/cm3

mech. properties: H = 66.4 HRB; $R_{c0.2} = -$; $R_m = 493 \text{ MPa}$

smooth, K, = 1.0; surface machined

rotary bending, R = -1

 10^7

116 MPa (114 MPa this evaluation) Endurance limit:

M. Onoda: Fatigue Strength of Sintered Structural Component Materials; Japan Powder Metallurgical Association, Tokyo, 1983 (in Japanese)

Stress amplitude:	114	123	130	145	157	171	188	201	MPa
Cycles to failure:	10185.914	40306.454	1432.188	954.993	263.027	141.254	38.194	15.631	· 1000
								38.194	