

## Data Sheet — FN50

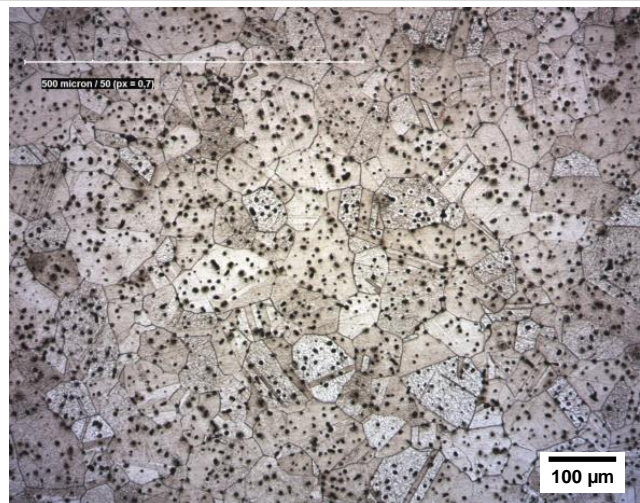
for technical applications

Comparable Standards	DIN 1.3922/ 1.3926	UNS K95000	F3
	ISO 22068 MIM-Fe50Ni-200	MPIF Standard 35 MIM-Fe50%Ni	

Composition	Fe	C	Ni	Si	Mn	others
	min (wt.%)	-	46.0	-	-	-
	max (wt.%)	Bal.	51.0	1.0	0.5	1.0

Typical Properties	Density	Hardness	R <sub>m</sub>	R <sub>p0.2</sub>	A <sub>10</sub>	
	g/cm <sup>3</sup>	HV10	MPa	MPa	%	
	as sintered	≥ 7.6	≥ 90	≥ 400	≥ 150	≥ 18

### Microstructure as sintered



### Characteristics soft magnetic iron-nickel alloy

### Typical Applications FN50 can be used in many applications requiring a high permeability and a high saturation magnetization: e.g. solenoid valves, AC&DC relays, transformers, parts for measuring instruments, magnetic shielding for electronic instruments and communication devices.

These data presented here are based on our current knowledge and experience, but no liability can be assumed.