

DATA SHEET

Sendust Material specification

New data

2008 Sep 01

SENDUST SPECIFICATIONS

The most economic medium frequency alloy powder material with high saturation flux density and low loss density for use in power inductors and output chokes.

	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	26 – 125	
T_C		≥ 500	°C
thermal conductivity		0.08	W.mm ⁻¹ .K ⁻¹
linear expansion coefficient		10.8×10^{-6}	K ⁻¹
density for 125 μ		≈ 7000	kg/m ³

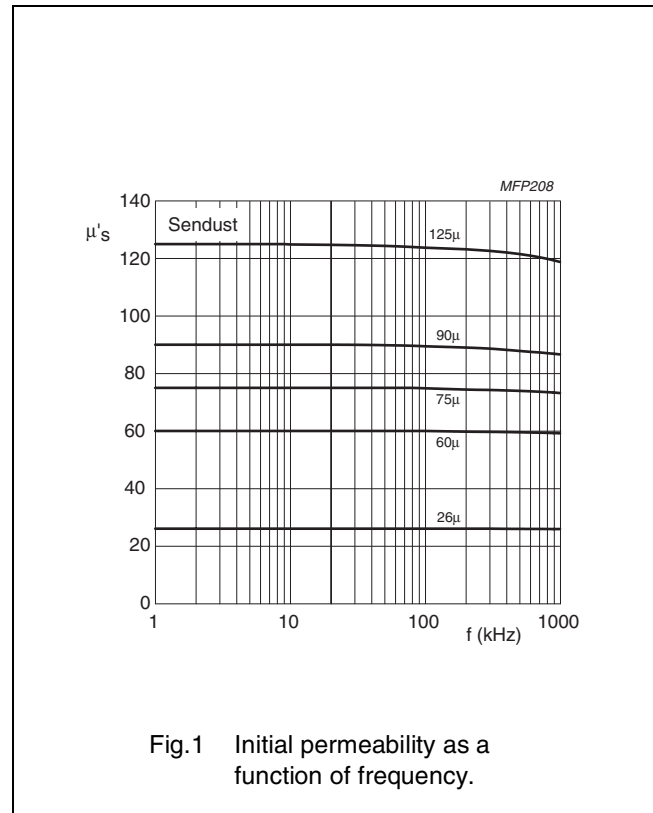


Fig.1 Initial permeability as a function of frequency.

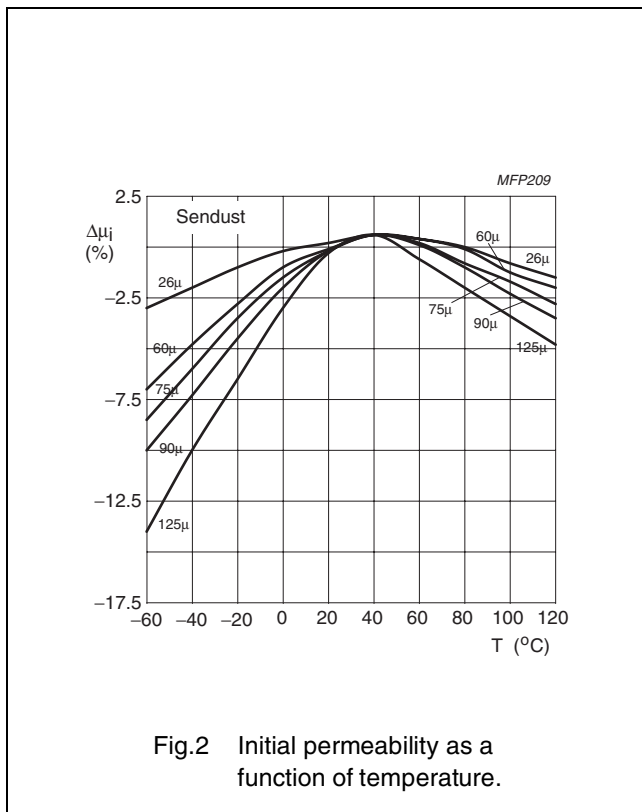


Fig.2 Initial permeability as a function of temperature.

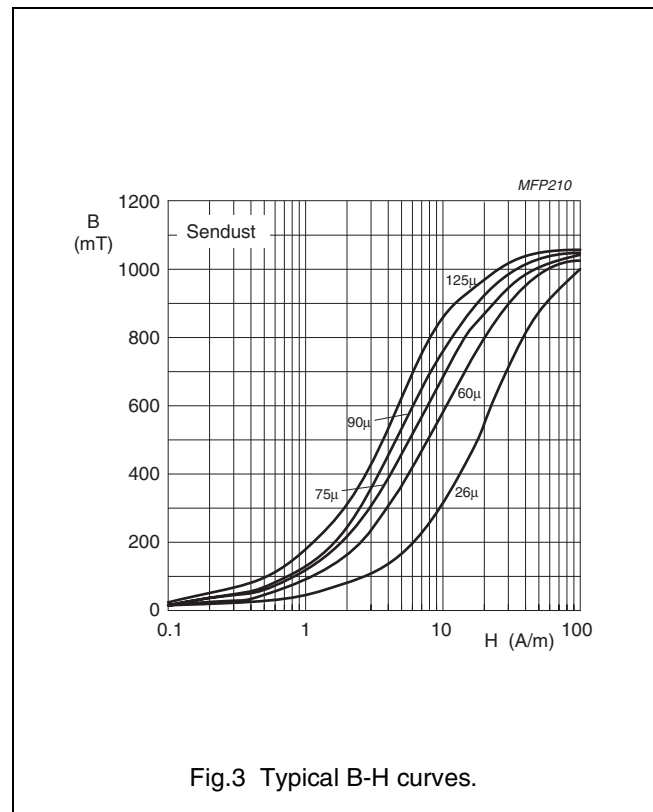


Fig.3 Typical B-H curves.

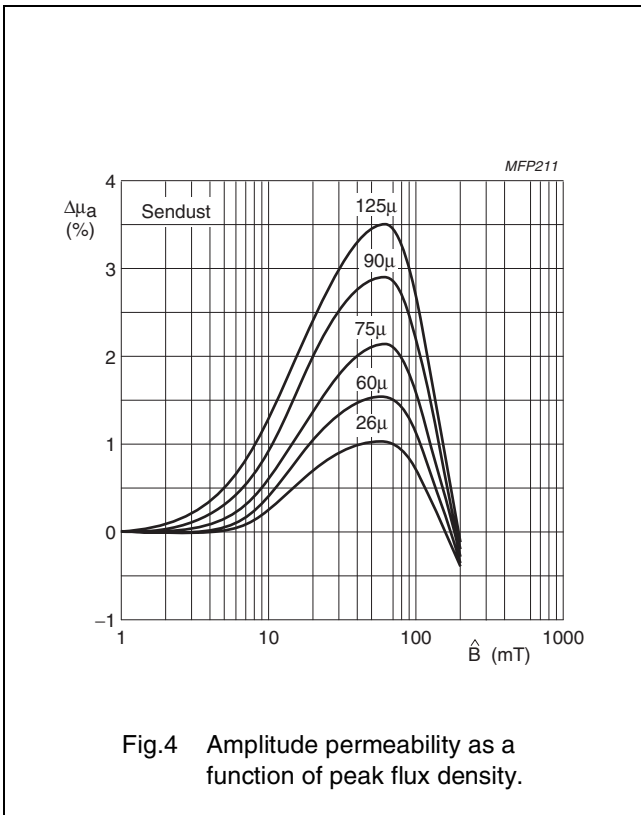


Fig.4 Amplitude permeability as a function of peak flux density.

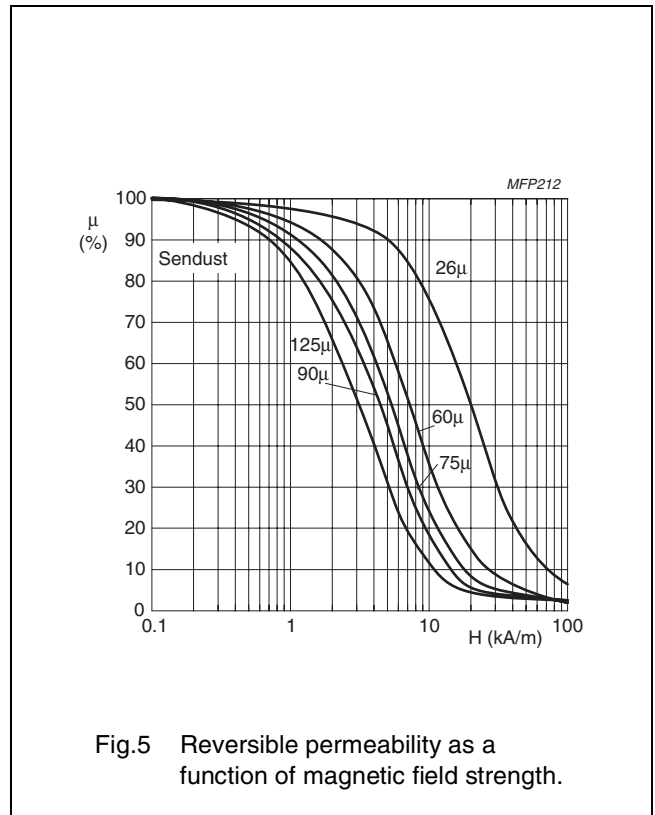


Fig.5 Reversible permeability as a function of magnetic field strength.

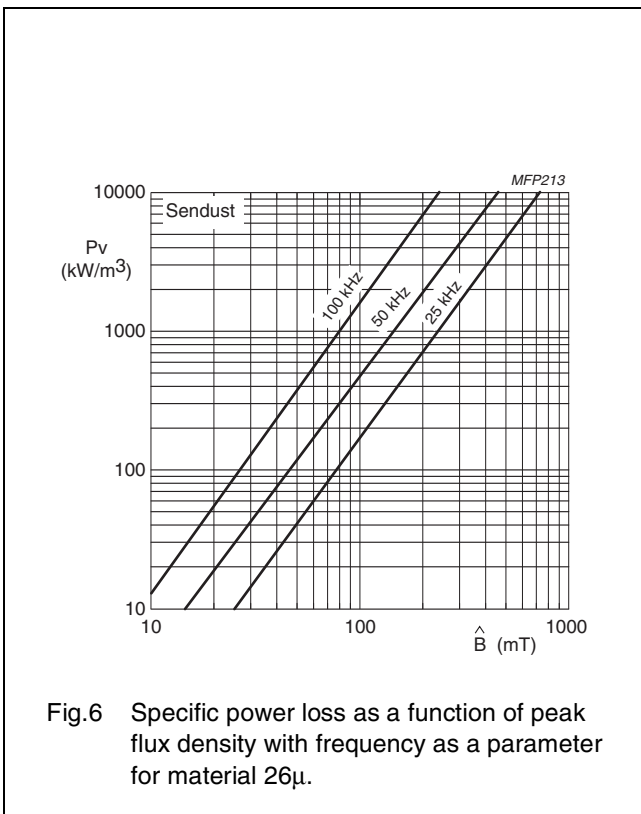


Fig.6 Specific power loss as a function of peak flux density with frequency as a parameter for material 26 μ .

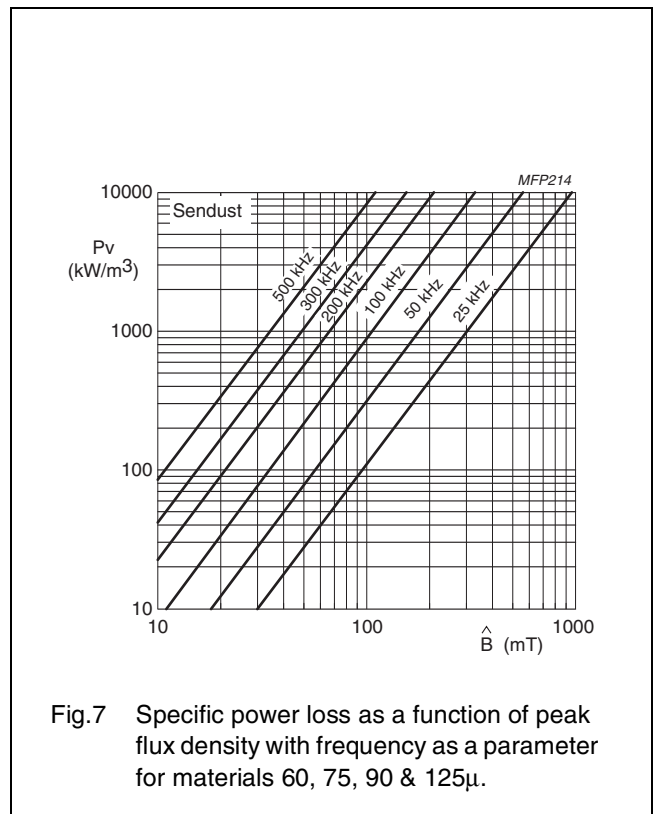


Fig.7 Specific power loss as a function of peak flux density with frequency as a parameter for materials 60, 75, 90 & 125 μ .

DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION
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Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support		These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.