

DATA SHEET

3C91 Material specification

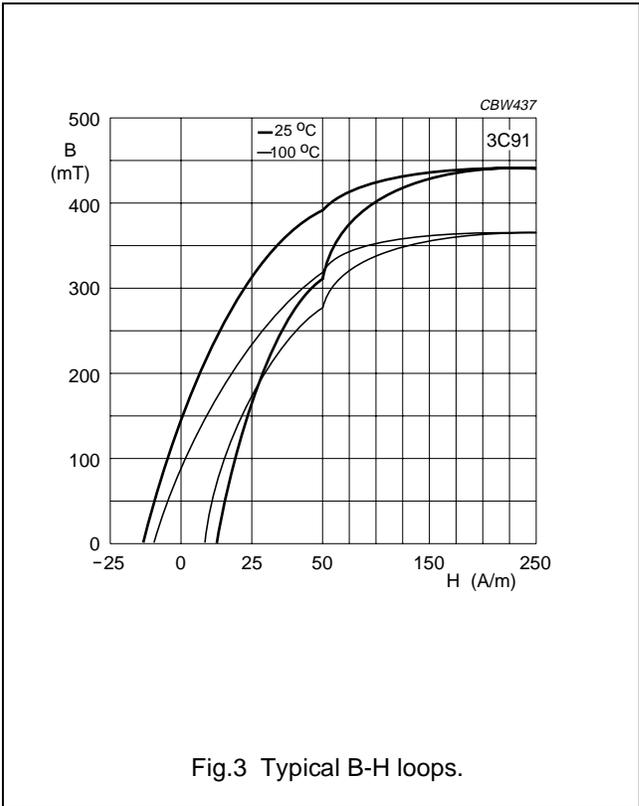
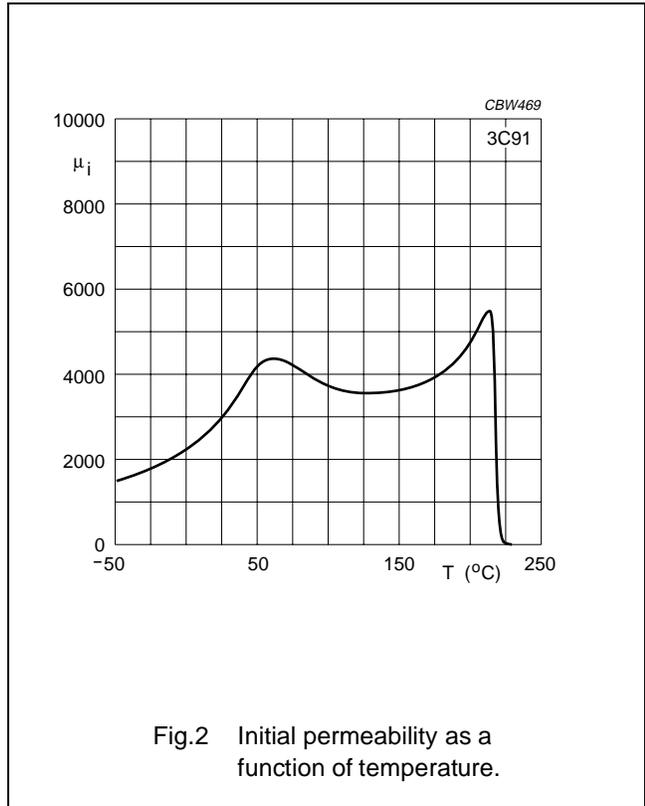
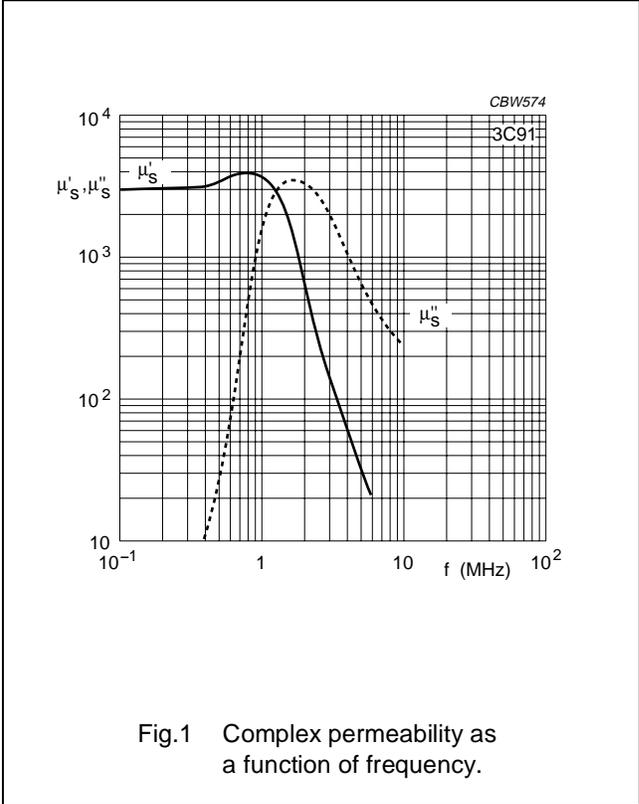
Supersedes data of February 2002

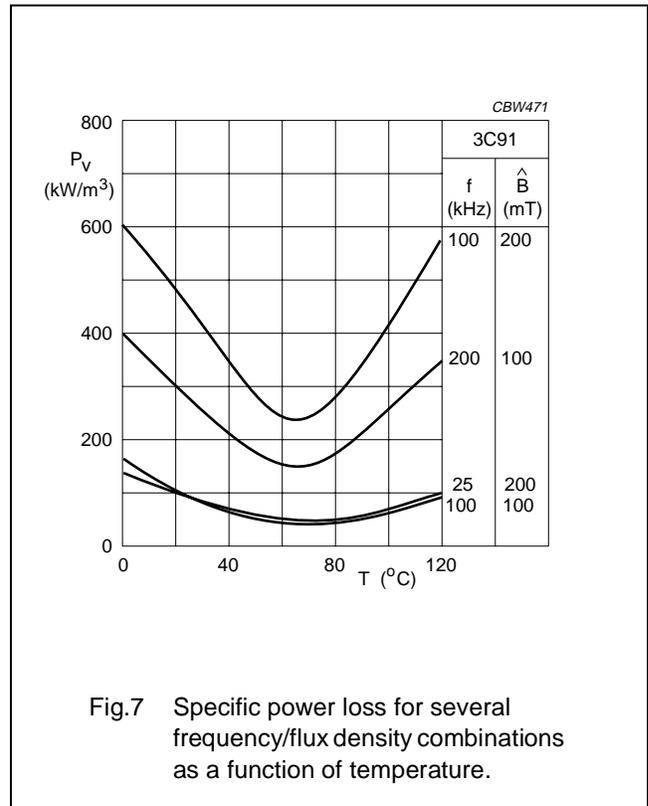
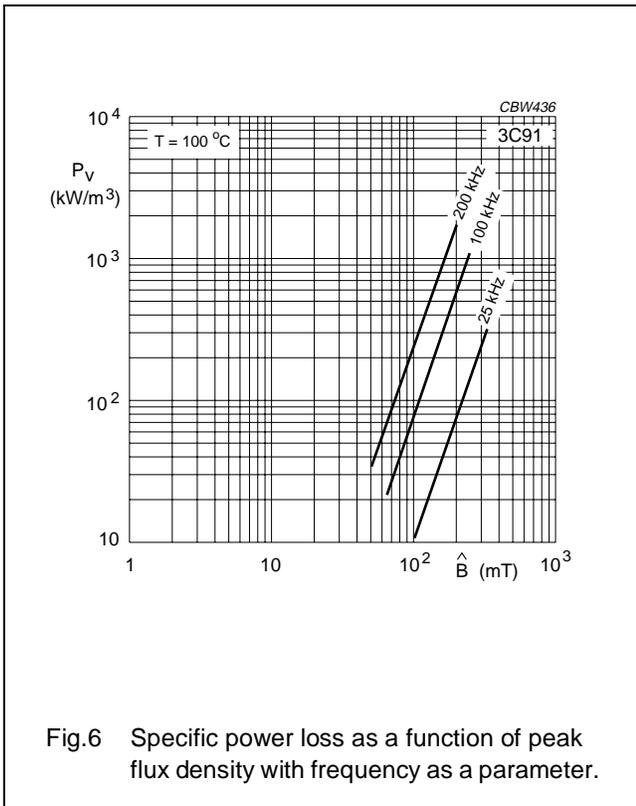
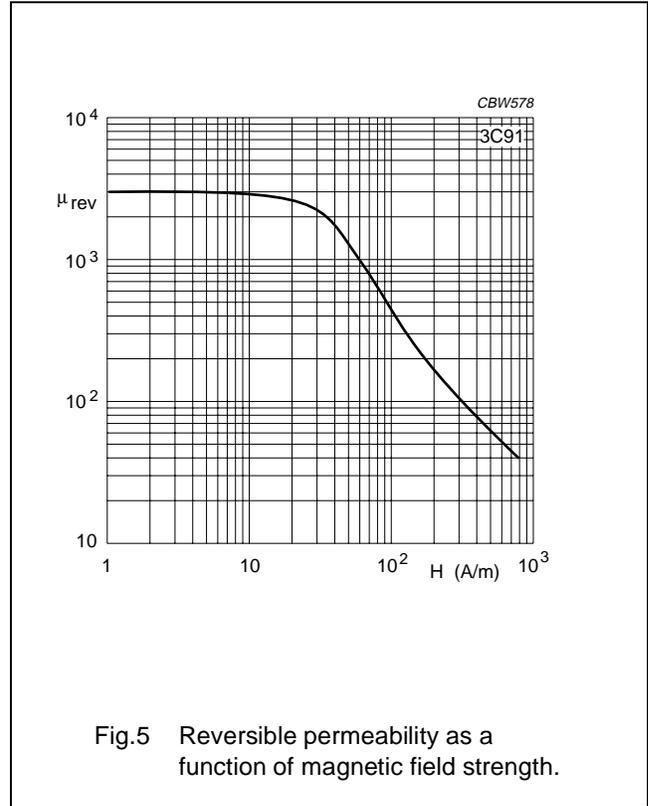
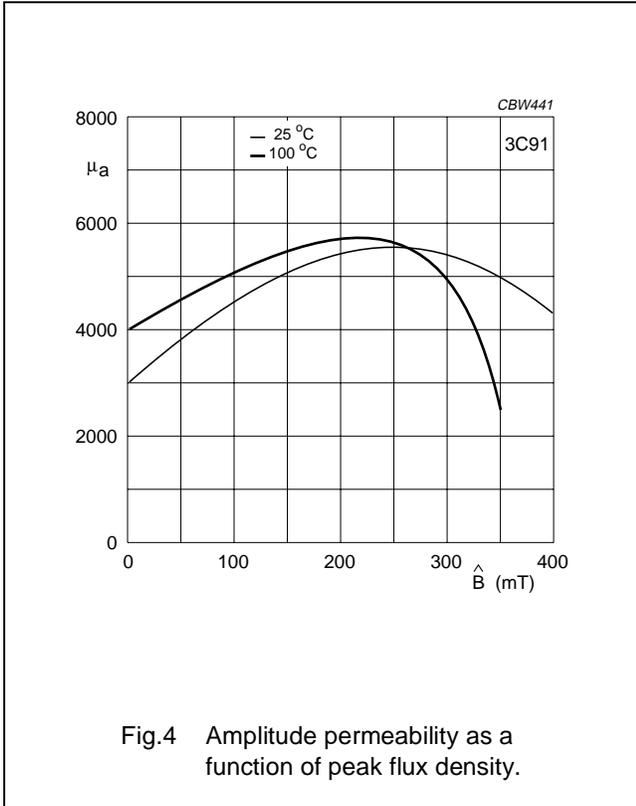
2004 Sep 01

3C91 SPECIFICATIONS

A medium frequency power material with minimum power losses around 60 °C for use in power and general purpose transformers at frequencies up to 0.3 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	3000 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	5500 $\pm 25\%$	
B	25 °C; 10 kHz; 1200 A/m	≈ 470	mT
	100 °C; 10 kHz; 1200 A/m	≈ 370	mT
P_V	60 °C; 100 kHz; 100 mT	≤ 40	kW/m ³
	60 °C; 100 kHz; 200 mT	≈ 300	
ρ	DC, 25 °C	≈ 5	Ωm
T_C		≥ 220	°C
density		≈ 4800	kg/m ³





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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Design-in		These products are recommended for new designs.
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.