# DATA SHEET

# **3C93**Material specification

Supersedes data of September 2004

2008 Sep 01



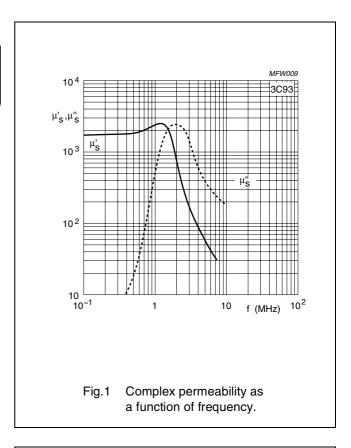
### 3C93

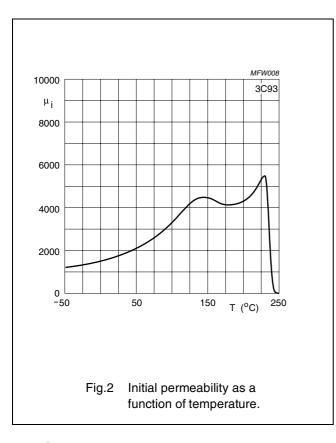
# Material specification

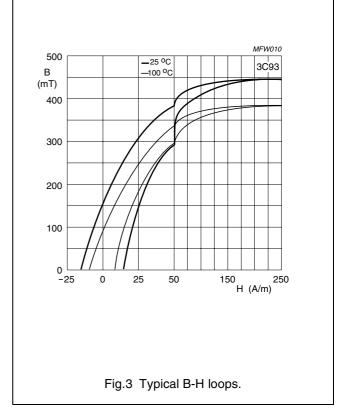
#### **3C93 SPECIFICATIONS**

A low to medium frequency power material with minimum power losses around 140  $^{\circ}$ C for use in power transformers at frequencies up to 0.5 MHz.

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	CONDITIONS	VALUE	UNIT
$\mu_{i}$	25 °C; ≤10 kHz; 0.25 mT	1800 ±20%	
μα	100 °C; 25 kHz; 200 mT	≈ 5000	
В	25 °C; 10 kHz; 1200 A/m	≈ 520	mT
	100 °C; 10 kHz;	≈ 430	
	1200 A/m		
	140 °C; 10 kHz;	≈ 360	
	1200 A/m		
$P_V$	140 °C; 100 kHz;	≈ 50	kW/m <sup>3</sup>
	100 mT		
	140 °C; 100 kHz;	≈ 350	
	200 mT		
	140 °C; 500 kHz;	≈ 300	
	50 mT		
ρ	DC; 25 °C	≈ 5	$\Omega$ m
T <sub>C</sub>		≥ 240	°C
density		≈ 4800	kg/m <sup>3</sup>



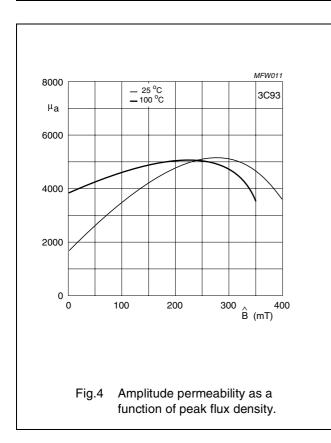


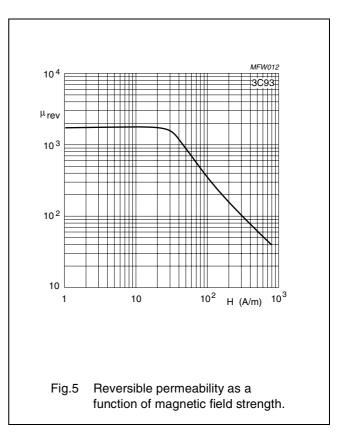


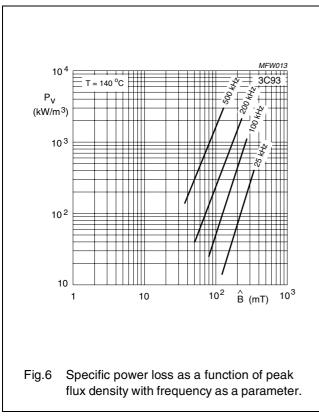
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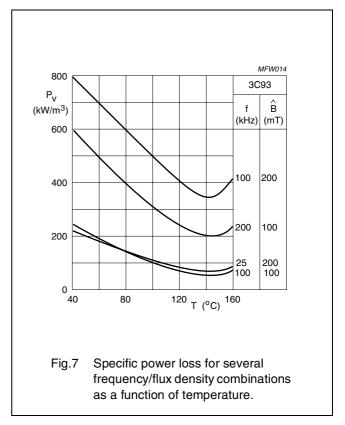
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#### **DATA SHEET STATUS DEFINITIONS**

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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**Life support applications** — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

#### **PRODUCT STATUS DEFINITIONS**

STATUS	INDICATION	DEFINITION
Prototype	prot	These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
Design-in	des	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	sup	These products are <b>not</b> recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.

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