MEGATRON AG
FERROXCUBE DISTRIBUTOR FOR MAGNETIC COMPONENTS



# DATA SHEET

# 3E26
# Material specification

Supersedes data of September 2004

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FERROXCUBE
A YAGEO COMPANY

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# Material specification 3E26

## 3E26 SPECIFICATIONS

A medium permeability material mainly for use in current compensated chokes in EMI-suppression filters.

| SYMBOL | CONDITIONS | VALUE | UNIT |
|---|---|---|---|
| $\mu_i$ | 25 °C; ≤10 kHz; 0.25 mT | 7000 ± 20% | |
| B | 25 °C; 10 kHz; 1200 A/m | ≈ 430 | mT |
| | 100 °C; 10 kHz; 1200 A/m | ≈ 300 | |
| $\tan\delta/\mu_i$ | 25 °C; 100 kHz; 0.25 mT | $\leq 20 \times 10^{-6}$ | |
| $\rho$ | DC; 25 °C | ≈ 0.5 | Ωm |
| $T_C$ | | ≥ 155 | °C |
| density | | ≈ 4900 | $kg/m^3$ |

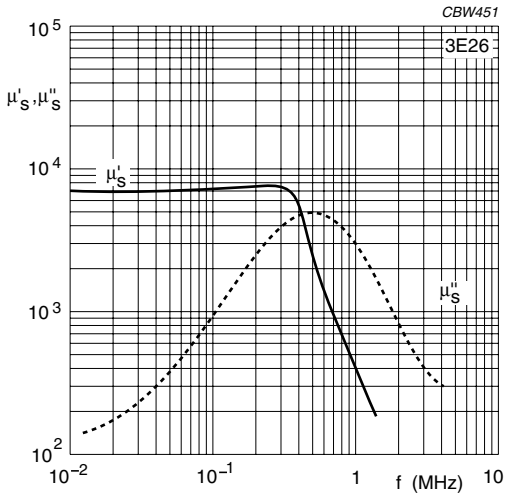


Fig.1 Complex permeability as a function of frequency.

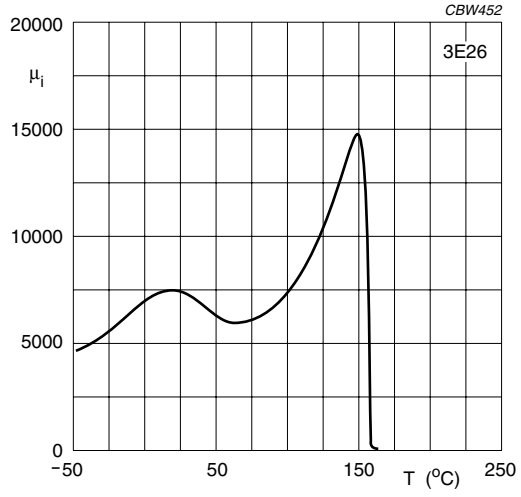


Fig.2 Initial permeability as a function of temperature.

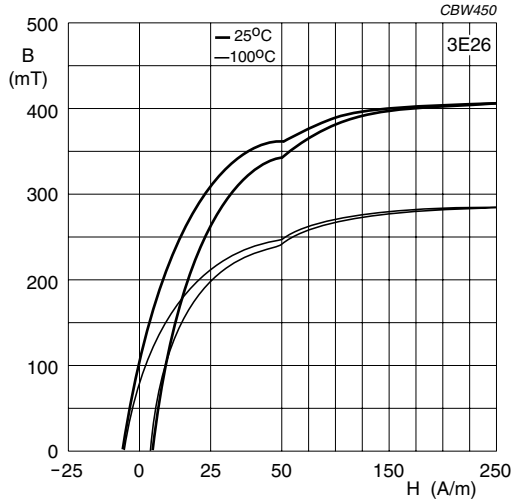


Fig.3 Typical B-H loops.



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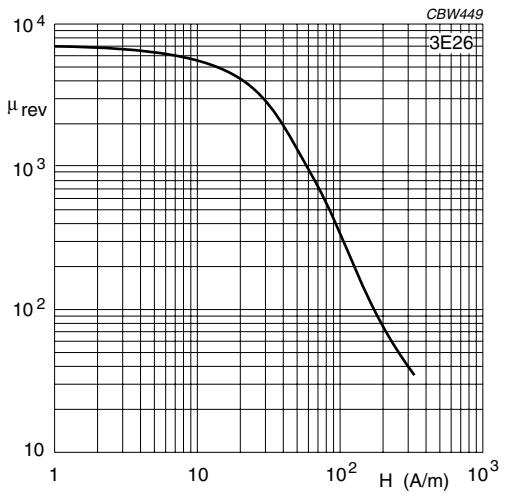


Fig.4 Reversible permeability as a function of magnetic field strength.



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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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## 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 **not** 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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