

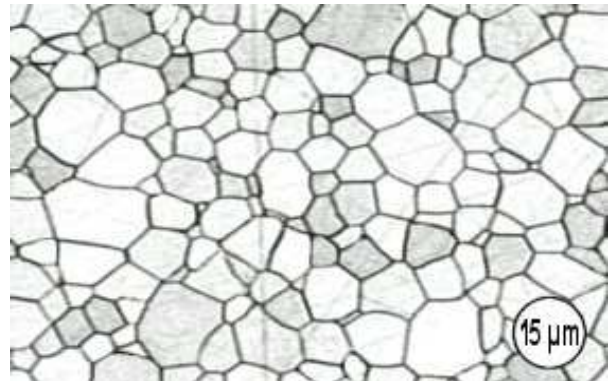


# MND5100 Ultra-High Density, Fine-Grained Mn-Zn Ferrite

*MND5100 was originally developed for recording head applications, but because of its' unique mechanical and phsyical properties, it now excels in such uses as specialty transformers, non-destructive testing, and current probes. Its' absence of porosity make it idealy suited for deposition and wear-resistant applications.*

### Typical Properties

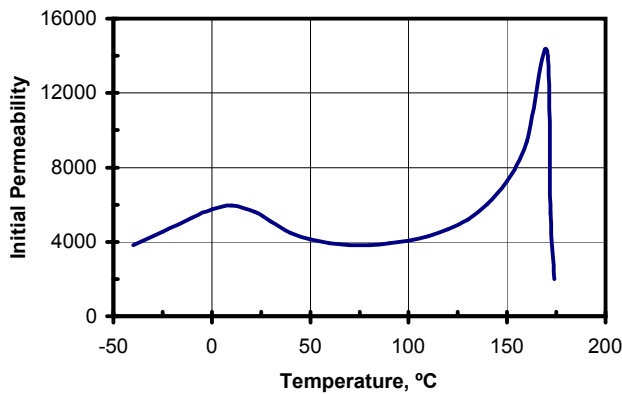
|                                |                     |
|--------------------------------|---------------------|
| <b>Initial Permeability</b>    | <b>5600</b>         |
| <b>Maximum Permeability</b>    | <b>8100</b>         |
| <b>Saturation Flux Density</b> | <b>5100 Gauss</b>   |
| <b>Remanent Flux Density</b>   | <b>400 Gauss</b>    |
| <b>Coercive Force</b>          | <b>0.05 Oersted</b> |
| <b>Curie Temperature</b>       | <b>175°C</b>        |
| <b>dc Volume Resistivity</b>   | <b>60 ohm-cm</b>    |
| <b>Bulk Density</b>            | <b>5.086 g/cc</b>   |
| <b>Grain Size</b>              | <b>12 um</b>        |



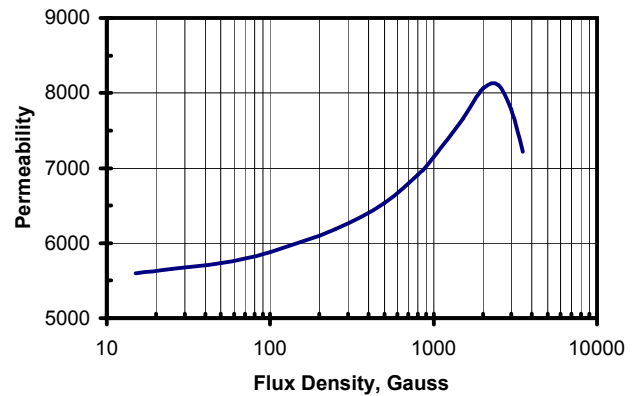
*Unless otherwise specified, all tests were performed at 10 KHz, 22°C*

*Bs tested at 1 KHz, 20 Oersted • Br, Hc at 1 KHz, 5 Oersted*

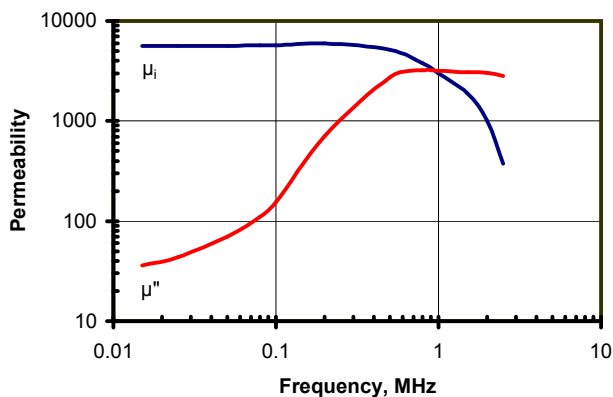
**Initial Permeability vs. Temperature**



**Permeability vs. Flux Density**



**Complex Permeability vs. Frequency**



**BH Loop Parameters vs. Temperature**

