Ceramic Magnetics, Inc.
a Division of National Magnetics Group

MN98

Mn-Zn Power Ferrite

This material is a power ferrite developed for down-the-hole oil well applications where high flux and high temperatures are encountered. This material is designed to operate at frequencies up to 500 KHz and temperatures up to 230ºC.

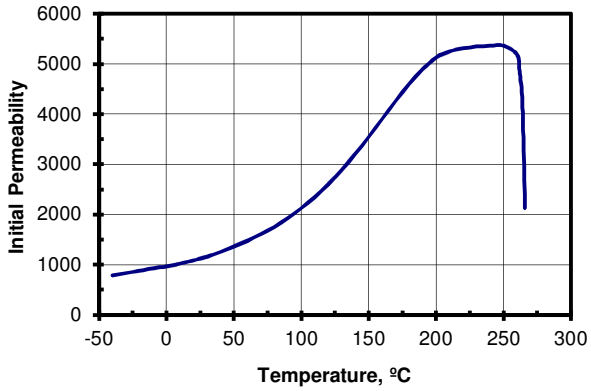
Typical Properties

Initial Permeability	**1100**
Maximum Permeability	**4500**
Saturation Flux Density	**4800 Gauss**
Remanent Flux Density	**3600 Gauss**
Coercive Force	**0.29 Oersted**
Curie Temperature	**265ºC**
dc Volume Resistivity	**5000 ohm-cm**
Bulk Density	**4.70 g/cc**

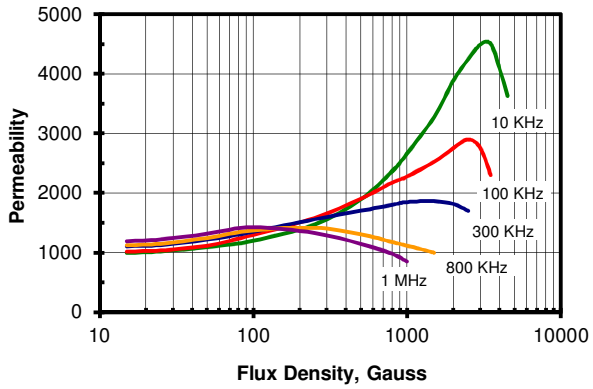
Unless otherwise specified, all tests were performed at 10 KHz, 22ºC

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

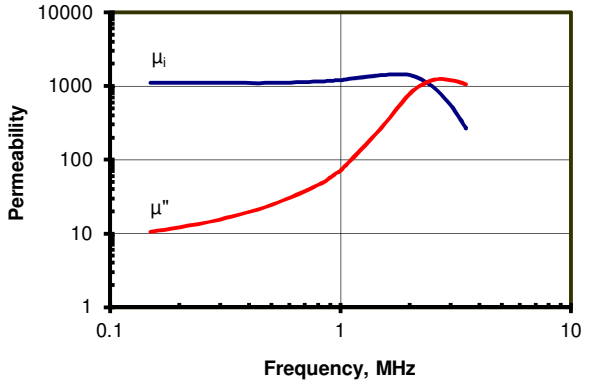
Initial Permeability vs. Temperature



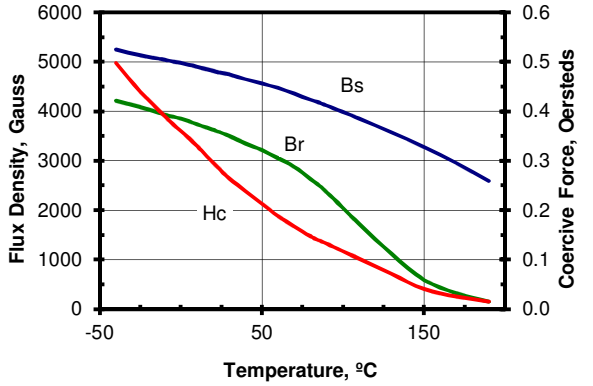
Permeability vs. Flux Density



Complex Permeability vs. Frequency



BH Loop Parameters vs. Temperature



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Rev. 9/19

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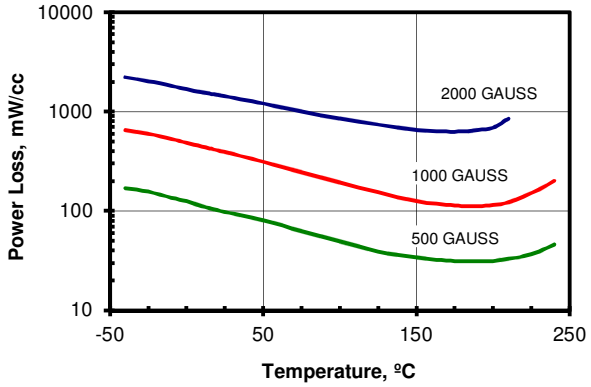
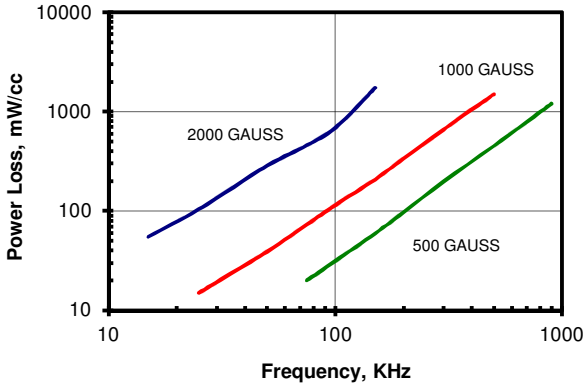
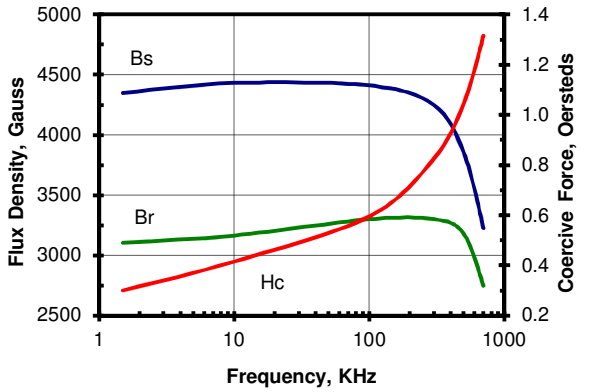
Power Loss vs. Temperature at 100KHz



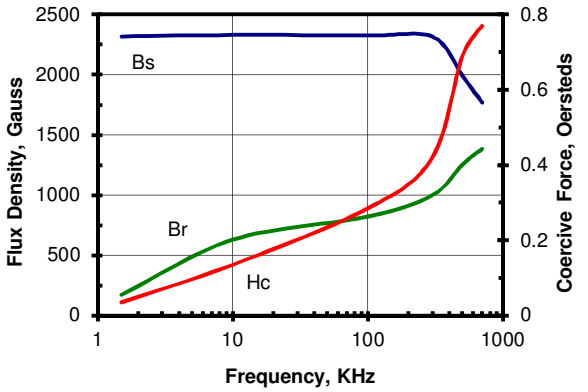
Power Loss vs. Frequency at 200°C



BH Loop Parameters vs. Frequency



BH Loop Parameters vs. Frequency at 200ºC



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