

26 μ SUPER-MSS™ Cores

Product Information

SUPER-MSS is recognized as one of the highest value magnetic materials available today. The new 26-permeability version of this material has particle to particle insulation especially formulated for low permeability.

As in all Group Arnold powder cores, this insulation is inorganic and allows the cores to be stress-relief annealed for superior performance. It also provides additional core break-strength, which is helpful for winding high current inductors with heavy gauge wire. The powdered metal used in SUPER-MSS is principally iron alloyed with small amounts of silicon and aluminum. It is free of costly nickel yet provides the following benefits:

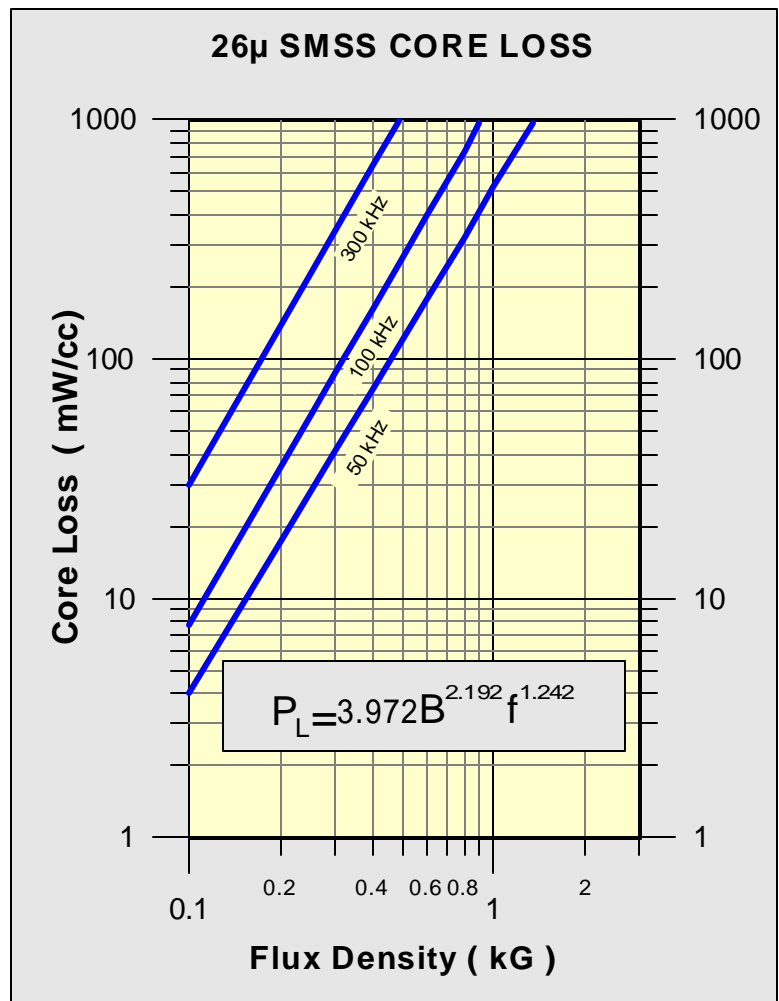
- Zero magnetostriction, quiet operation
- High energy storage density
- Low loss
- Stable inductance with direct current bias
- Impedance at high frequency
- Low inductance modulation versus alternating current

SUPER-MSS provides quiet, smooth and efficient energy storage for electronic power applications. The 26-permeability material was developed to meet a demand for greater energy storage density in high-power applications.

Where component space is limited and high energy storage is necessary, consider using 26-permeability SUPER-MSS cores.

Below are some applications where the new 26-permeability powder cores can help:

- DC output inductors in switching power supplies
- Power factor correction (PFC) boost inductors
- Low frequency AC output inductors for switching audio amplifiers and uninterruptible power supplies (UPS)
- Inductors for resonant power circuits
- Differential-mode EMI filter chokes



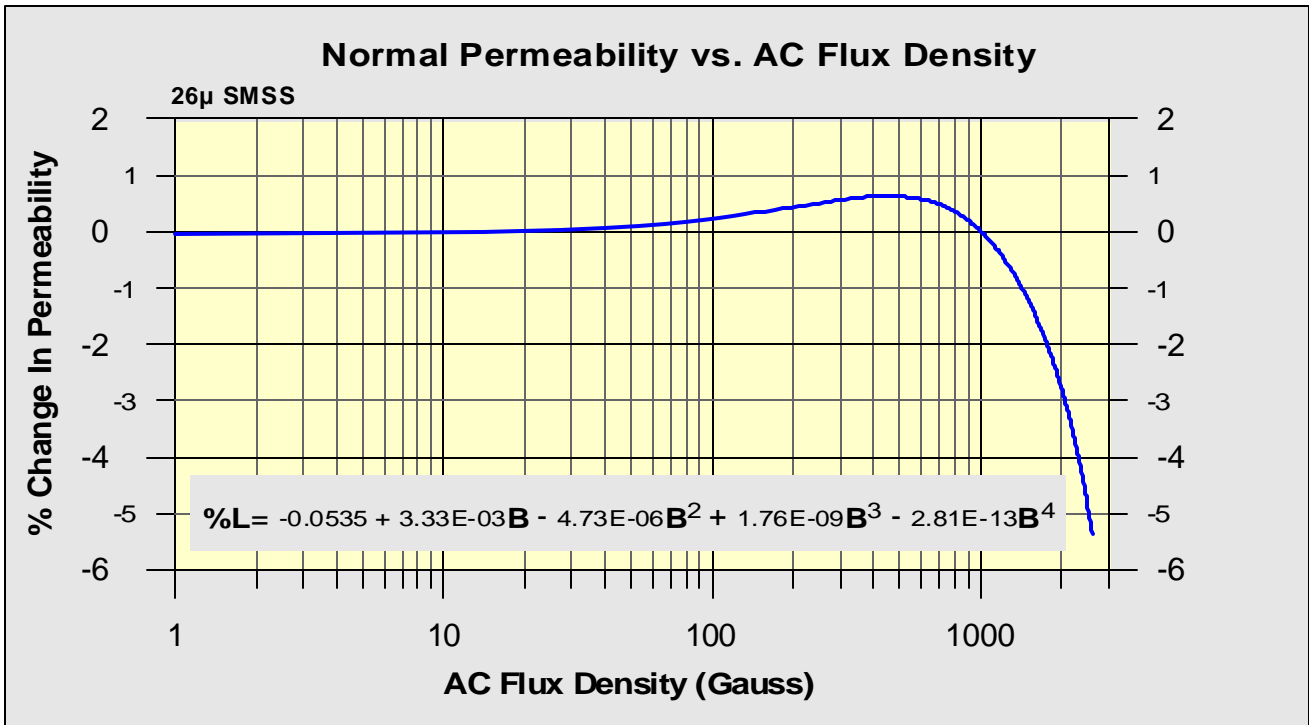
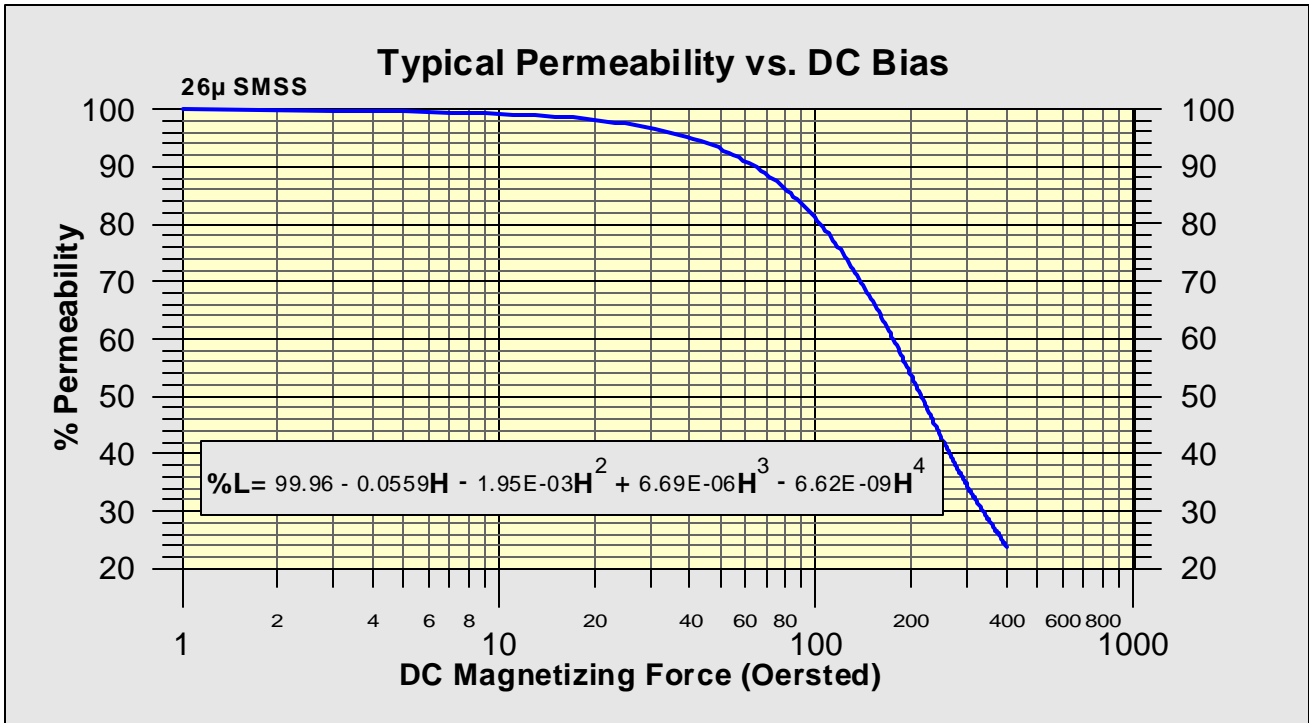
SUPER-MSS is also available in permeabilities of 60, 75, 90 and 125 to satisfy a wide range of inductance values and current levels. All are available in the toroidal (ring-shaped) form. Outside diameters range from 0.140 inch (3.56 mm) to 5.218 inches (133 mm).

Contact your Group Arnold Sales Representative or Group Arnold at 815 568-2000 for more information. For information on Group Arnold's complete line of products, visit our website at www.grouparnold.com

January, 2000

The Arnold Engineering Co., 300 N. West Street, Marengo, Illinois 60152

GROUP ARNOLD



Limited Warranty and Exclusive Remedy

Group Arnold warrants that these products conform to industry standards specific herein and will be free from defects in material and workmanship. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND IN LIEU OF ANY OTHER OBLIGATION ON THE PART OF THE ARNOLD ENGINEERING COMPANY. The Arnold Engineering Company will, at its option, repair or replace free of charge (excluding all shipping and handling costs) any products which have not been subject to misuse, abuse, or modification and which in its sole determination were not manufactured in compliance with the warranty given above.

THE REMEDY PROVIDED FOR HEREIN SHALL BE THE EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY OR ANY CLAIM ARISING IN ANY WAY OUT OF THE MANUFACTURE, SALE, OR USE OF THESE PRODUCTS. In no event shall The Arnold Engineering Company and its parent company, SPS Technologies, Inc., be liable for consequential, incidental or any other damages of any nature whatsoever except those specifically provided herein for any breach of warranty or any claim arising in any way out of the manufacture, sale, or use of these products. No other person is authorized by The Arnold Engineering Company to give any other warranty, written or oral, pertaining to the products.