

News Release
March 2004



For Immediate Release

CONTACT: Lori Hoffman
(800) 253-8003 or email: egraf@graftech.com

GRAFTECH INTERNATIONAL LTD.
INTRODUCES
NEW ELECTRONIC THERMAL MANAGEMENT SOLUTION

SpreaderShield™ Thermal Solution Significantly Reduces Hot Spots in
Consumer Electronics Products

Cleveland, OH – March 25, 2004 – GrafTech International Ltd. introduces SpreaderShield™, a new thermal management solution joining its eGraf® product line. SpreaderShield is a natural graphite solution that distributes heat evenly in two dimensions, eliminating “hot spots”, shielding components from heat sources and improving performance in consumer electronics.

“Our SpreaderShield technology solves today’s comfort and performance issues currently faced by many leading electronics manufacturers,” said John Wetula, president of GrafTech’s Advanced Energy Technology Inc.. “Furthermore, the eGraf SpreaderShield allows engineers to design next generation products differently. For example, SpreaderShield is ideal for products where space for other cooling solutions is limited and lightweight is a critical factor. In many cases, SpreaderShield can eliminate the need for other thermal management solutions such as fans, heat sinks, and heat pipes resulting in both reduced cost and weight for the device.”

eGraf SpreaderShield thermal management products are custom designed for use in applications such as laptop computers, flat panel displays, portable projectors, digital video-cameras, wireless phones, and personal digital assistant devices. Available with adhesive backing, SpreaderShield can be easily applied to electronic components.

SpreaderShield ranges in thickness and can be combined with other materials such as metals and plastics for added design versatility. SpreaderShield is covered by US patent 6,482,520 and others pending.

GrafTech is the first company to offer heat spreaders manufactured from natural graphite materials. Compared to typical thermal management materials, eGraf materials offer thermal conductivity twice as effective as aluminum and rival the thermal conductivity of copper at substantially less weight. SpreaderShield's unique thermal anisotropy and excellent conformability enable new cooling solutions not possible with other materials.

In 2001, GrafTech introduced the eGraf line of electronic thermal management products to meet the increasing thermal management demands created by the need for smaller, highly integrated and higher performing electronic devices. The eGraf product line offers a full range of solutions, including thermal interface materials, heat sinks and heat spreaders. In 2003, GrafTech received the R&D 100 award from R&D Magazine for its eGraf Natural Graphite Composite Heat Sink. For additional information on eGraf thermal management solutions, call (800) 253-8003 or email egraf@graftech.com.

GrafTech International Ltd. is one of the world's largest manufacturers and providers of high quality synthetic and natural graphite and carbon products and related technical and research and development services, with industry leading customers in approximately 60 countries. It also manufactures thermal management, fuel cell and other specialty graphite and carbon products for, and provides services to, the electronics, power generation, semiconductor, transportation, petrochemical and other metals markets. GrafTech has 13 state of the art manufacturing facilities strategically located on four continents. For additional information on GrafTech International, visit the web site at www.graftech.com.

This information is not to be taken as warranty or representation for GrafTech International Ltd. assumes legal responsibility nor as permission or recommendation to practice any patented invention without licenses. eGraf and SpreaderShield are trademarks of Advanced Energy Technology Inc.

PO Box 94637, Cleveland OH 44101
Phone: (800) 253-8003 Fax: (216) 529-3888
www.egraf.com email: etm@graftech.com

GRAFTech
GrafTech International Ltd.