

# TI500

## Heat Shield Insulation Material

### Description

TI500 is a medium density, highly inorganic material with excellent heat and flame resistance, and low thermal conductivity. It is intended for use as a general purpose insulation material in 3-part heat shield construction, and can withstand a maximum temperature of 1000°C. It is available in 0.5mm, 0.8mm, and 1.0mm thicknesses; other thicknesses may be subject to a minimum order quantity.

### Specification Properties

Property	Value	Method
Density, g/cc (lb/cu.ft)	0.95 - 1.15 (59 - 72)	ASTM F 1315
Compressibility, % (at 6.9MPa)	10 (min.)	ASTM F 36K
Recovery, %	20 (min.)	ASTM F 36K
Tensile Strength, AMD, MPa (psi)	1.5 (220) (min.)	ASTM F 152
Weight Loss, % (1h at 600°C)	15 - 20	ASTM F 495
Thermal Conductivity, W/m.K (at 300°C)	0.15 (Typical Value)	ASTM F 433
Flame Resistance	DNI	SAE J 369

### Remarks and Related Documents

Specification values determined by the test methods required for ASTM F-104, Type 3 materials. Items denoted (Typical Value) are provided for design purposes, but are not tested on a statistical basis.

EnCore®, Hydro-Fused®, MicroPore®, Pro-Formance®, Select-a-Seal®, Select-a-Shield®, Syntheseal®, Thermo-Tork®, and Voltoid® are registered trademarks of Interface Performance Materials, Inc. PureGuard™ is a trademark of Interface Performance Materials.

WARNING: The description and performance data provided herein constitute a material specification for quality control purposes, but do not imply suitability for use in a specific application. Your specific application should not be undertaken without independent study and evaluation for suitability. Failure to select proper sealing products may result in either property damage or personal injury. For specific application recommendations, contact Interface Performance Materials. INTERFACE PERFORMANCE MATERIALS EXPRESSLY DISCLAIMS ALL WARRANTIES EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL INTERFACE BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THE INFORMATION CONTAINED IN ITS SPECIFICATION DATA SHEETS, ITS PRODUCTS OR THEIR FUTURE USE BY YOU OR ANY THIRD PARTIES, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

For more information, please visit [www.InterfaceMaterials.com](http://www.InterfaceMaterials.com) or contact

WORLD HEADQUARTERS  
Interface Performance Materials, Inc.  
216 Wohlsen Way  
Lancaster, PA 17603  
USA  
+1.717.207.6000

TECHNICAL CENTER  
Interface Performance Materials, Inc.  
215 Wohlsen Way  
Lancaster, PA 17603  
USA  
AE@InterfaceMaterials.com  
+1.717.207.6000

NORTH AMERICA  
Interface Performance Materials, Inc.  
22260 Haggerty Road, Suite 200  
Northville, MI 48167  
USA  
+1.248.596.2800

ASIA PACIFIC  
Interface Sealing Solutions Shanghai Co., LTD  
Unit 14F, No. 728  
Yan An Road West, Changning District  
Shanghai 200050  
China  
+8621.5238.5650

INDIA  
Interface Performance Materials India LLP  
Mandkola Road, Vill. Atta, Sohna,  
Distt: Mewat, Nuh-122103 (Haryana)  
+91.0124.8930992166

EUROPE & SOUTH AMERICA  
Interface Sealing Solutions Europe  
Lili Pean, Le Bourg  
Bonloc 64240  
France  
+33.5.5929.1220

GERMANY  
Interface Performance Materials  
Altenkirchen GmbH  
P.O. Box 12 63  
Koblenzer Strasse  
Altenkirchen D-57610  
Germany  
+49.2681.80020