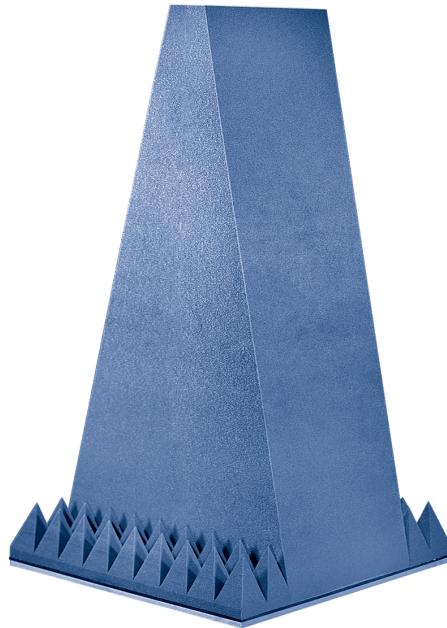


**FEATURES:**

- Non-Hygroscopic Substrate
- 10 m Chamber Applications
- Numerically Optimized Design Achieves Superior Performance
- Ultra Broadband Frequency Range:  
30 MHz - 40 GHz
- 200 V/m Power Handling Capability
- Maximizes Test Volume – Less Than 1/2 the Depth of Traditional EMC Absorber
- Fire Retardant  
Meets NRL 8093 Tests 1, 2 & 3, TI #2693066, MIT MS-8-21, UL 94 and DIN 4102-B2
- Suitable for Retrofits to Upgrade Performance



*ETS-Lindgren's FS-1001 Anechoic Absorber*

**ETS-LINDGREN'S FERROSORB**

**FS-1001** is a numerically optimized hybrid that combines high performance carbon-loaded foam absorber with precision-manufactured ferrite tile specifically designed for use in 10 meter EMC chambers.

This ultra broadband composite achieves superior levels of absorption and power-handling capability in a space-saving profile.

The FS-1001 design features ultra-broadband performance from 30 MHz to 40 GHz, achieving superior levels of absorption and exhibiting excellent power-handling capability. Chambers designed with FerroSorb FS-1001 will perform better than the +/-4 dB normalized site attenuation requirements specified in ANSI C63.4 and CISPR 16-1-4.

**FEATURES**

ETS-Lindgren absorbers use a new fire-retardant chemical formula that is non-hygroscopic. As a result, the absorber is not affected by moisture and will maintain its mechanical and RF performance over the life of the product.

Absorption/reflectivity performance of FS-1001's 1000 mm (39.4 in) size is superior to dielectric material measuring up to twice its depth.

FS-1001 has excellent power handling capability for today's immunity standards testing, and can safely handle continuous exposure to fields up to 200 V/m.

FerroSorb FS-1001 is fire retardant and meets the standards of NRL 8093 Tests 1, 2 & 3, TI #2693066,

MIT MS-8-21, UL 94, and DIN 4102-B2: Tests for Flammability.

Before absorbers are placed in service, they are serialized and their reflectivity performance is measured using non-destructive testing. In the critical low frequency range of 30 MHz to 500 MHz, a vertical coaxial waveguide is utilized as specified in IEEE 1128. Testing at higher frequencies is performed using the NRL Arch technique. These precise tests assure quality of the complete absorber, resulting in optimized chamber performance.

**APPLICATIONS**

- ANSI C63.4
- CISPR 16-1-4
- IEC 61000-4-3
- MIL-STD 461

## Electrical Properties

PART #	FREQUENCY	POWER HANDLING
FS-1001	30 MHz-40 GHz	200 V/m CW

## Physical Properties

PART #	HEIGHT OVERALL	UNIT SIZE (SQUARE)	MOUNTING	RATINGS: FIRE RETARDANT
FS-1001	1000.0 mm 39.4 in	600.0 mm 23.6 in	Mechanical Fastener	NRL 8093 Tests 1,2,3, TI #2693066, MIT MS-8-21, UL 94 and DIN 4102-B2

