

VHF FERRITE ABSORBER TILES 3600

Ferrite absorber tile is the industry standard solution and exhibits excellent overall performance versus cost



Our 3600 series Ferrite absorber tile is the standard solution for industry applications. It is an attractive solution for new anechoic chambers or for upgrading existing rooms for radiated-emission and immunity tests. These tiles are used when relatively high absorption and a compact solution are required (-15 to -25dB <100MHz). It is an excellent, reliable and compact solution for attenuating reflections in shielded enclosures.

3600 VHF FERRITE ABSORBER TILE

The VHF ferrite absorber tile is made of sintered ferrite and shaped like a square tile. The dimensions are 100 x 100mm with a thickness of **6.7mm**.

The tiles are subject to precise mechanical tolerances on all sides, minimizing gaps between adjacent tiles to ensure maximum performance.

The tiles provide excellent electromagnetic absorption performance in the VHF band for EMC anechoic chambers.

MATERIAL CHARACTERISTICS

| Characteristics | Symbols | units | 3600 series |
|------------------------------------|------------------------|-----------------------------------|----------------------|
| Initial permeability | μ_{iac} | | 1000 \pm 20% |
| Relative loss factor | $\tan\delta/\mu_{iac}$ | $\times 10^{-6}$ | 25 (0.1MHz) |
| Saturation flux density | B_s | mT | 360 (1194A/m) |
| Remanence | B_r | mT | 100 |
| Coercivity | H_c | A/m | 12 |
| Relative temp. factor (20°C ~60°C) | $\alpha_{\mu r}$ | $\times 10^{-5}/^{\circ}\text{C}$ | 3 ~ 5 |
| Curie temperature | T_c | $^{\circ}\text{C}$ | >100 |
| Density | δ | kg/m ³ | 5.0x 10 ³ |
| Resistivity | ρ | M Ω *m | >1.0 |

CHARACTERISTICS

- No risk of explosion, flammability, reactivity or health hazard

FEATURES

- Absorption of lower electromagnetic waves
- Wide frequency and fire resistant
- An electromagnetic absorbing material
- Easy and quick to assemble
- Precision-machined tiles for seamless installation
- No physical degradation over time
- Ultra thin, so takes up little space
- Highly weather resistant

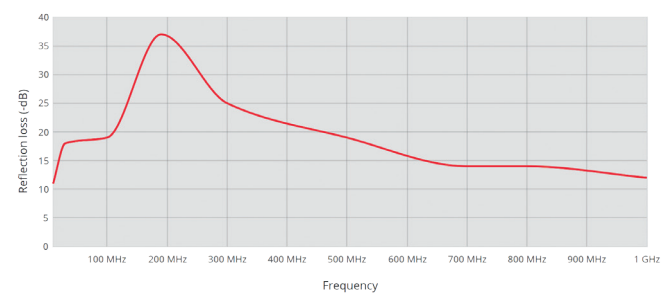
APPLICATIONS

- EMC electromagnetic-wave anechoic chamber
- Electromagnetic-wave reflection of buildings
- Electromagnetic-wave absorption
- Electromagnetic reflection problems
- ANSIC63.4, CISPR16-1-4, IEC61000-4-3
- Prevents TV ghost

PERFORMANCE CHARACTERISTICS (3600-M)

(Normal incidence reflection loss)

Reflective attenuation vs. frequency

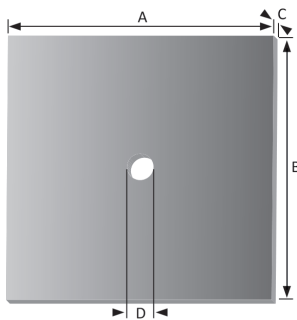


Please note: These values are measured under laboratory conditions. Results may vary in other situations. Please read our Guarantee.

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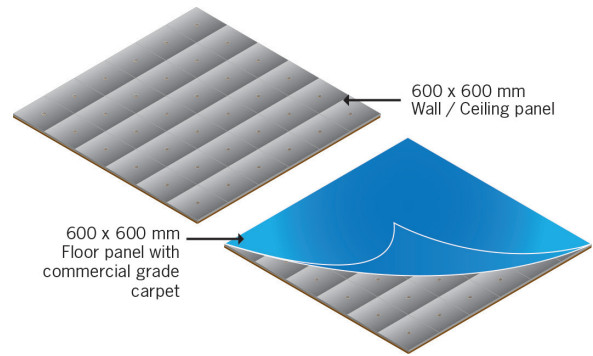
PART NUMBERS AND PRODUCT SPECIFICATION
EMC-chamber dedicated, ferrite tile is produced with a traditional ceramic manufacture process.

Please note: These ferrite tiles are very thin, which can save more space for chamber installation. The tiles are non-flammable and they can be fully suitable for high-power test chambers. Ferrite tiles can be screwed directly on to the shielded housing; installation is very easy. Even after many years the effect of the ferrite tiles still will not be degraded



SUPPLIED AS 600 X 600 MM PANELS (OPTIONALLY AVAILABLE)

Both the 3600 VHF ferrite absorber tile and the 3610 UHF ferrite absorber tile are optionally available in the panel format of 36 Ferrite absorber tiles.



| Part number | Dimensions | | | Weight | Typical Reflection Loss (dB) | | | | | | | |
|-------------|------------|------------|-------------|-----------|------------------------------|---------|-------|--------|--------|--------|--------|--------|
| | A (mm) | B (mm) | C (mm) | | D (mm) | Kg/sq m | 30MHz | 100MHz | 200MHz | 300MHz | 500MHz | 700MHz |
| 3600 | 100 (±0.5) | 100 (±0.5) | 6.75 (±0.2) | 10 (±0.2) | 33 | -18 | -27 | -36 | -25 | -20 | -15 | -12 |

ORDER EXAMPLE

| Part number | Type | Size |
|-------------|------|--------------------|
| 3600 | M | 100 |
| | | 100 : 100 x 100 mm |
| | | 600 : 600 x 600 mm |

*Notice

Information supplied in these data sheets is based on independent and laboratory tests which Holland Shielding Systems BV, hereafter referred to as HSS believes to be reliable. HSS has no control over the design of customer's product which incorporates products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

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