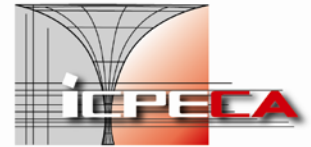




Nr. Registrul Comerțului  
J40/3800/2001  
Cod Fiscal RO 13827850  
Capital Social: 381.108 Lei  
Trezorerie M.B.:  
RO24TREZ7005069XX002740

Cont : ROL  
RO52RNCB0076029424690001  
BCR SMB  
Splaiul Unirii no. 313, sector 3  
Bucharest, 030138, Romania

Email: [office@icpe-ca.ro](mailto:office@icpe-ca.ro)  
[www.icpe-ca.ro](http://www.icpe-ca.ro)  
Phone: +4021.346.7231  
+4021.346.8297  
Fax: +4021.346.8299



## SEEM<sub>0.8 – 10 GHz</sub> ELECTROMAGNETIC SHIELD for MICROWAVES FREQUENCY FIELD

### Description

SEEM<sub>(0.8-10GHz)</sub> electromagnetic shield is a composite material based on magnetic materials recovered from pyrite ashes and ferrite powder, dispersed in a rubber matrix.



### Characteristics:

- density: 1.6 ... 1.9 g/cm<sup>3</sup>;
- break resistance: min. 3.5 MPa;
- break elongation: min. 300%;
- hardness in Shore A degrees: min, 3.5 daN/cm<sup>2</sup>;
- tensile strength by bending: 50±5°;
- shielding effectiveness depending on frequency:
  - 0.800 GHz: 8±20% dB;
  - 0.900 GHz: 10±20% dB;
  - 1.000 GHz: 13±20% dB;
  - 1.300 GHz: 16±20% dB;
  - 2.300 GHz: 12±20% dB;
  - 3.300 GHz: 13±20% dB;
  - 4.300 GHz: 19±20% dB;
  - 8.500 GHz: 19±20% dB;
  - 9.000 GHz: 26±20% dB;
  - 10.000 GHz: 296±20% dB.

### Advantages:

- ◆ greening the environment by reducing the waste from the pyrite heaps and reusing the magnetic material from the pyrite ash,
- ◆ flexible material thanks to the rubber matrix,
- ◆ it can be done in various shapes and sizes.

### Applications

The SEEM electromagnetic shield is used as a building material in areas with increased exposure to electromagnetic fields in the 0.8 – 10 GHz frequency range.