



Nr. Registrul Comerțului  
J40/3800/2001  
Cod Fiscal RO 13827850  
Capital Social: 381.108 Lei  
Trezorerie M.B.:  
RO24TREZ7005069XXX002740

Cont : ROL  
RO52RNCB0076029424690001  
BCR SMB  
Splaiul Unirii nr. 313, sector 3  
București, 030138, România

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



## ELECTROMAGNETIC SHIELD OF COMPOSITE TEXTILE WITH FERROMAGNETIC MICRO-WIRES AS SHIELDING ELEMENTS

### Description

These are intelligent materials made by inserting micro-wires of different alloys into a textile matrix.



### Characteristics:

The properties obtained on experimental models in the form of 12x12 cm mats, having different compositions of micro-wires twisted with dacron-type textile yarns are the followings:

- electromagnetic attenuation: 38 dB ... 45 dB;
- tensile strength:  $R_m = 600 - 2000$  MPa.

### Advantages:

- These shielding materials have the main advantage of ensuring the protection and safety (regarding clothing) of the staff performing the maintenance and service works in areas where the electromagnetic radiation emissions are above the allowed limit.

### Applications

Electromagnetic radiation protection systems in the form of protective clothing for staff which perform maintenance and service works in areas where the electromagnetic radiation emissions are above the allowed limit.