

PROCEM™

Electromagnetic shielding

PROCEM™ is a conductive multi-layer metal coating intended for the electromagnetic shielding of polymers and composite materials.

The production of electrically conductive coatings is one of the methods commonly used to perform the shielding function, without fundamentally calling into question the design of devices. With the EMC function are also often associated complementary constraints like corrosion performance, solderability, etc.

PROCEM™, a PVD coating, makes it possible to reconcile these various essentials while at the same time providing other advantages related to the implementation process: dimensional precision, quality of any gaps, negligible effect on the mass of objects, etc.



The layers deposited are generally of a thickness from 0.5 to 2µm adaptable to suit requirements.

The deposition temperatures generally vary according to substrate and generally inferior than 90 °C.

PROCEM™ is used for electromagnetic shielding in telecoms, aeronautics and weapons, as well as for its high conductivity in electrical connectors and components. It is also a good ecological replacement solution for electroplating.

This coating can be applied on most of polymers and composites.



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Vous pouvez ainsi nous localiser sur www.hef.fr ou nous contacter par mail sales.world@hef.fr

HEF Groupe
Rue Benoît Fourneyron - ZI Sud
42166 Andrézieux Bouthéon cedex,
France
Tél. +33 (0)4 77 55 52 22
Fax +33 (0)4 77 55 52 21

Coatings	Composition	Thickness	Minimum treatment temperature	Square resistance R_{\square} (m Ω)*	Applications
PROCEM™ 2	Silver base layer	Generally 0.5 - 2 μ m depending on application	~90 °C	< 20 m Ω	Electromagnetic shielding/CEM Automobile Telecom Aeronautic Military
PROCEM™ 3	Copper base layer		~80 °C	< 30 m Ω	
PROCEM™ 4	Aluminum base layer		<80 °C	< 50 m Ω	

*Depending on measuring protocole

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