



SILVERGUARD

SilverGuard Properties

Our products were developed for the deflection of RFID signals and serve as security for credit cards, health insurance cards, identity cards and other cards with RFID systems. They are made with 99% pure silver and therefore are perfectly suited to be used in clothing.

While other materials, such as nickel, aluminum or copper, have negative health impacts, silver is entirely odor-inhibiting, skin-soothing and antistatic. A layer in a pocket bag is sufficient to achieve complete shielding in all relevant frequency ranges.



SKIN-SOOTHING



EM SHIELDING



ODOR-INHIBITING



THE BEST ELECTRICAL CONDUCTOR OF ALL PRECIOUS METALS



ANTISTATIC



THE BEST THERMAL CONDUCTOR OF ALL METALS

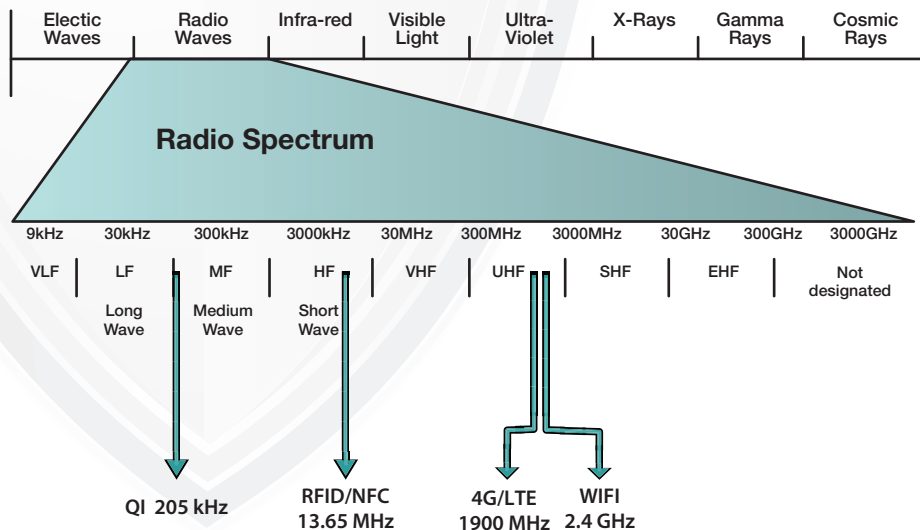


All experts agree that the signal range of these cards to normal reading devices is low, but that the data can be retrieved by special scanners from distances of up to 5 meters. This data theft is increasing and the innovations to protect against such scanners are on the rise, in clothing, wallets, handbags and many other areas.

The woven and knitted innovations of KC Wearable Technologies are an excellent solution.

They provide an amazing softness and are therefore excellently suitable as an additional layer in security pockets and do not result in the stiffness as other metal-coated textile products. The woven versions are also extremely tear resistant and are even suitable as pocket lining.

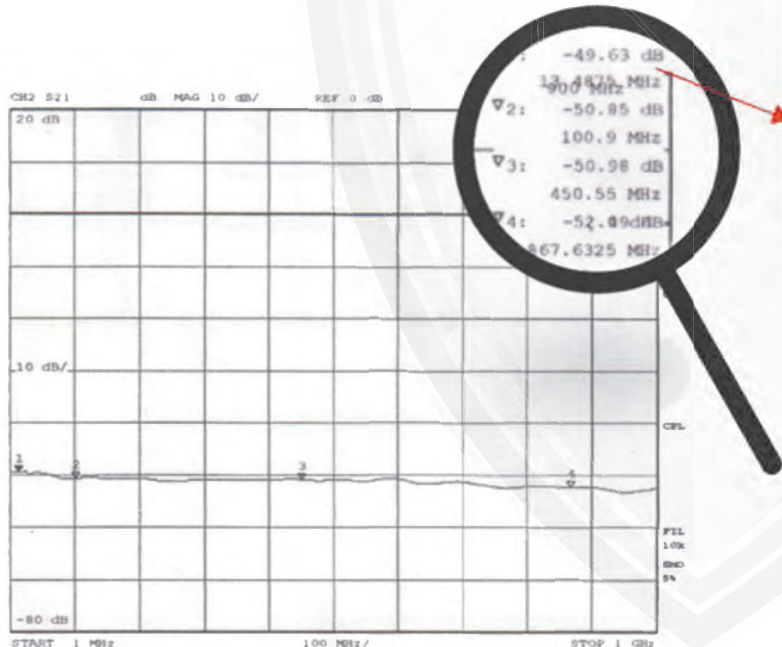
SILVERGUARD



Shielding Effectiveness

Tested by the University of the German Army

Despite their amazing softness, Silverguard products provide shielding values which exceed 99.99%



Shielding in dB	Passage in %	Shielding in %
0 dB	100,00 %	0,00 %
3 dB	50,00 %	50,00 %
5 dB	32,00 %	68,00 %
7 dB	20,00 %	80,00 %
10 dB	10,00 %	90,00 %
15 dB	3,20 %	96,80 %
20 dB	1,00 %	99,00 %
25 dB	0,30 %	99,70 %
30 dB	0,10 %	99,90 %
40 dB	0,01 %	99,99 %
50 dB	0,001 %	99,999 %
60 dB	0,0001 %	99,9999 %
70 dB	0,00001 %	99,99999 %
80 dB	0,000001 %	99,999999 %

Tests performed by the University of the German army in Munich show only minimal reductions of shielding values after 15 washings and dry-cleanings.



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Product Safety

The safety of Silverguard is a key advantage



All products are fully certified according to
Oeko-tex® Standard 100 – Class 1,
allowing harmless contact to baby skin.
They also fully comply with REACH.



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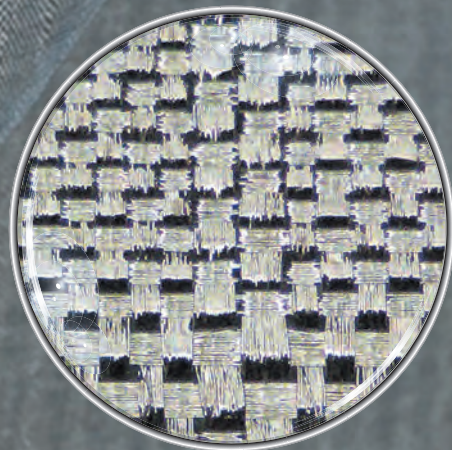
JUPITER

The key to his impressive softness is the use
of silver-metallized polyamide yarns

46g per square meter

Lightweight woven construction

Shielding Effectiveness (dB): -56,41 at 13,6 MHz

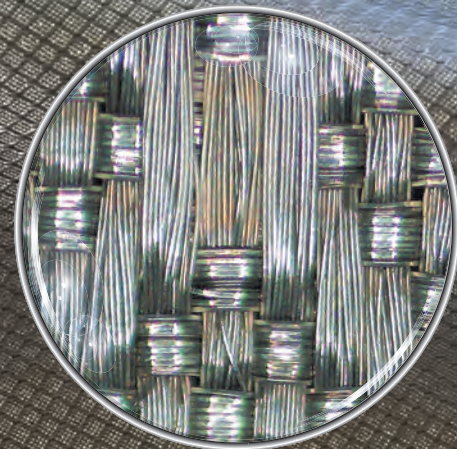


MARS

85g per square meter

Voluminous woven construction

Shielding Effectiveness (dB): -53,41 at 13,6 MHz

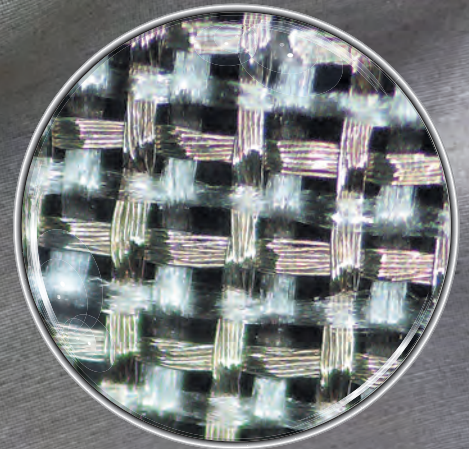


NEPTUNE

43g per square meter

Light woven construction with silk

Shielding Effectiveness (dB): -50,75 at 13,6 MHz



SATURN

34g per square meter

Ultrasoft knitted construction

Shielding Effectiveness (dB): -35,58 at 13,6 MHz



PLUTO

16g per square meter

Light non woven structure

Shielding Effectiveness (dB): -34,18 at 13,6 MHz

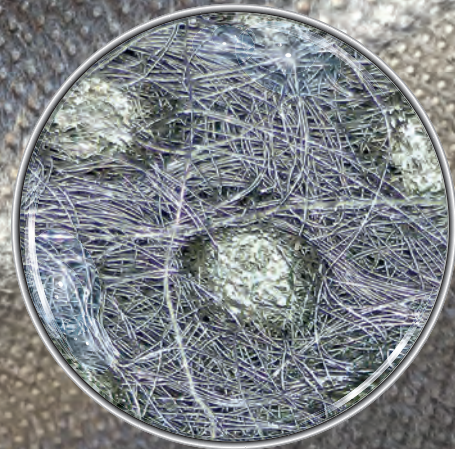


VENUS

72g per square meter

Voluminous non woven structure

Shielding Effectiveness (dB): -53,72 at 13,6 MHz





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• WEARABLE TECHNOLOGIES •

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