



# Technical Data Sheet

## NSCP Nickel Screening Compound - Plus

### Product Description

**NSCP** is an electrically-conductive coating based on nickel powder in a thermoplastic resin. It is an extremely efficient EMI/RFI screening coating. It will adhere to a wide variety of substrates and can be used to coat cabinets for a variety of electronic and electrical housings. The coating becomes touch dry 5 minutes after application and achieves maximum conductivity after 24 hours.

**NSCP** is available in aerosol and bulk forms. Both are 100% Ozone Friendly. If higher electrical conductivity is required, please ask for details on Silver Conductive Paint (SCP).

### Features

- \* 100% Ozone Friendly
- \* Excellent surface resistivity (0.3-0.7 ohm per sq. at 50 microns).
- \* Enhanced adhesion to wide variety of substrates including ABS, and many other plastics, with superior scratch resistance (Pencil Hardness 9H)
- \* Excellent attenuation levels.
- \* Specially formulated to avoid problems of settlement, therefore providing even surface coating.
- \* Fast drying at room temperature.
- \* Coats complex shapes.
- \* Prevents static build-up.

### **Liquid Properties**

Colour:	Dark Grey
Surface Resistivity @ 50 microns:	0.3 - 0.7 Ohms per sq.
Specific Gravity @ 20°C:	1.36 g/ml(Bulk), 1.17 g/ml(aerosol)
Drying Time (touch dry):	5 minutes (maximum conductivity after 24 hours; can be reduced by drying in oven after touch dry)
Flash Point:	17°C
Viscosity:	2300 cPs
Approximate Coverage (400ml Aerosol)	1.50 sq. metre at 50 micron dry film thickness.

### **Dry Film Coating**

Adhesion (Cross Hatch Test BS3900E6): Excellent

## Typical Attenuation (Electrical):

Frequency MHz	20	60	250	500
Attenuation dB	62	65	62	55
Pencil Hardness	9H			
Operating Temperature Range:	-40 - +95°C			

<u>Packaging</u>	<u>Description</u>	<u>Order Code</u>
------------------	--------------------	-------------------

**Nickel Screening Compound Plus**

400ml Aerosol		NSCP400H
5 Litre Bulk		NSCP05L

**Thinners**

1 Litre Bulk		NSCPT01L
5 Litre Bulk		NSCPT05L

**Directions For Use****Aerosol**

Shake thoroughly before use. A minimum of 2 minutes is recommended. Ensure surfaces are free from dust, dirt and grease. For some substrates e.g. polypropylene a suitable primer may be necessary. Please consult Electrolube Technical Department. Holding aerosol in upright position apply in light even strokes from side to side. More than one coat may be necessary to achieve desired specification. After use invert can and spray until nozzle is clear. Use in well ventilated area.

**Spray Gun**

For in-house spraying, **Nickel Screening Compound Plus** can be supplied in bulk containers (see below). The recommended dilution/mix ratio is 1:1 with **Electrolube NSCP Thinner (NSCPT)**. This product is for professional use only.

**Copyright Electrolube 2008**

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.