

CS-KH-70-A

Electrically conductive paint to produce electrically conductive films, Heaters & Film Resistors

Product:

CS-KH-70-A is a new, electrically conductive, electrically stable, conductive ink. The binder is a blend consisting of newly developed, 100% aqueous, aliphatic acrylate polymers having a TG of about 33. It is up to about 180 ° C continuous temperature stable by having a PTC effect. This coating has an excellent adhesion to all substrates except polyethylene.

Application:

CS-KH-70-A is, multi- and polyvalent usable for heat generation and heat transfer. The coating industry is so forth electrically conductive films of different film thicknesses (2-100 microns); thus, films of different conductivities (e.g. 10 - 2000 $\Omega \square$). Machined layers have an extreme homogeneity in the heat radiation with minimal intrinsic heat capacity. By applying an electrical voltage (3-230 V) can thus be achieved electrical performance of up to 1000 W / m². Typical applications are floor or wall heating in every imaginable space IR surface emitter, technical system heaters, defrosters and real estate ect ...

CS-KH-70-A can also be used as EMI isolation. The shielding properties of electromagnetic waves are, sweep at 2 times will close the properties of an aluminum foil.

Processing:

CS-KH-70-A is the most precise machine (Rackel / R2R, reared "Dye slot" in the screen printing process or the color is ready for the best adhesion can only be achieved on a hydrophilic surface eg modified PET or PEEK... films. In case of need and for better handling, the paint can be diluted with deionized water.

Coverage: **CS-KH-70-A** from 0.01 to 0.500 kg / m², depending on the layer thickness and planned

Application example. For a dry film of 5 microns, you need 10 ml **CS-KH-70-A** / m²

Cleaning:

With water immediately after use and (add universal detergent)

Drying time:

Dust dry: after about 20 minutes, at room temperature 20 ° C

Over coat: after at least 4 hours.

Dehydrating / sintering: 5 -30 (layerthickness) minutes at 150 ° C, necessary step for the production of electric films.

Characteristics:	solids content: about 55%, D = 1.33 kg / L
Consistency:	Rackelfähig, R2R, screen-printable,
Gloss grade:	dull matt
Binder:	acrylic polymer, spec. Weight approx 1:43 kg / L
Color:	Black
Elongation:	finished film ca 5MPa
Tensile strength:	500%
Viscosity:	3000-10000 mPAs
Thermoplasticity:	very good lamination, stable
Film softening:	> 200 ° C

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About overcoating: an overcoat on a dry film with an insulating paint / varnish is possible. But first, always check compatibility

Dilution: Ready to use, if necessary with water
Storage: tightly closed, 6 -12 months, containers, dry and cool (frost-free, never below + 5 ° C).
(Bleeding or N2 gas)

Packaging: Packaging: 1kg, 5kg, 20kg.120kg plastic bucket
Classification: SZID: no / registration: SZID 236308
Disposal: As waste must not be discharged into drains or rivers.

Transport: RID / ARD: Not dangerous according to RID / ADR

CS-KH-70-A:

If a heating / conductive ink having an electrical sheet resistance of about 50 ohms / square at a dry layer thickness of about 20 microns. Dilution of binders or water the electrical resistivity can be increased indefinitely.

The information contained in this techn. Data Sheet corresponds to our current knowledge. However, the working conditions of the user are beyond our knowledge and control. Therefore, liabilities and contingent liabilities are excluded due to the variety of use and applications. Without written approval, the product for uses other than those described must not be used. For reprints previous leaflets are no longer valid

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Figure 1 : Electrically resistance of different layer thickness

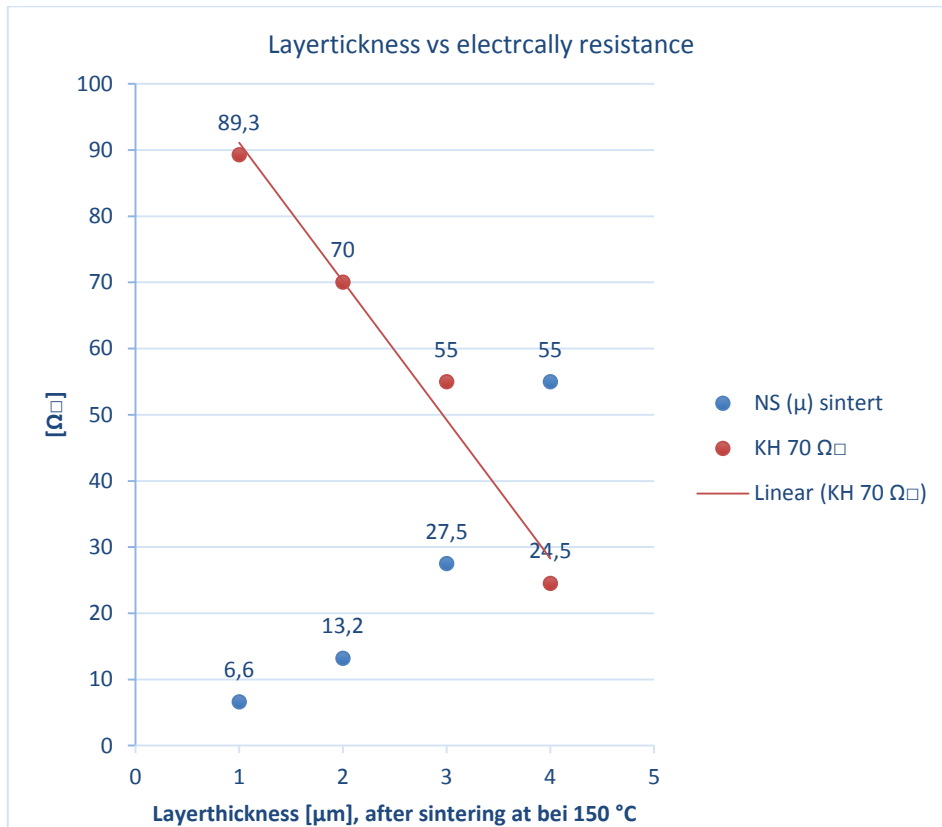


Figure 2 : Heating element for mirror , Voltage applied 3 Volt

