dks COATINGS

TDS

ProtekoteEv105

TECHNICAL DATA SHEET

DKS COATINGS

Application

Cell Insulation Ci104

Ev105

The battery system of e-cars consists of many modules, which in turn are composed of individual cells. Battery cells are the smallest unit in the battery system and at the same time the heart of the electric mobility of today and tomorrow, they are energy storage and power centre.

ProtekoteEv105 a great insulating coatings for EV-battery cells in the automotive industry. For these safety-relevant components, OEM manufacturers rely on our “know how” with **ProtekoteEv105** coating systems. Many cells have already been successfully coated with our coating systems.

Our coating solutions are optimised for the requirements of e-mobility and protect battery housings, battery covers and cell modules from overcurrent, overheating and all external influences. This ensures a safe and long service life for the most expensive component of the e-car.

COATINGS

TDS

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TECHNICIAL SPECIFICATIONS

ProtekoteEv105 coatings for battery cells modules -E-Mobility
Premium ProtekoteEv105 Coatings
Sustainable, environmentally friendly technology
Application equipment can be integrated in the cell production (Low space required)
Recycling of the Overspray (95%)
Outstanding adhesion / chemical and mechanical resistance
Excellent reject rates of< 1%,
No overlapping as with foils
Thin film thickness (100 um DFT)
High insulation properties
Cells can be cooled quickly and directly

FEATURES

- High insulating resistance
- Great thermal conductivity
- Flexible use for different cell sizes
- High product qualification rate
- No bubbling concern during usage
- More space per module
- Direct and efficient cooling

Insulation Coating vs PET Film High insulation properties
Cells can be cooled quickly and directly
Insulation Coating

- High insulating resistance
- Great thermal conductivity
- Flexible use for different cell sizes
- High product qualification rate
- No bubbling concern during usage
- More space per module
- Direct and efficient cooling
- Long-lasting

PET Film

- Limited throughput (mostly 6pm)
- Quality consistency issue due to the adhering process
- Bubbles during using impacts insulation
- Change equipment & process for different size cell
- Wrapping process not easy to handle
- Adhesions of film to can surface difficult