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Carbon Paste / Copper Paste

Carbon paste for PTF Conductor on rigid / flexible board

Carbon paste series available for resistance, key contact / cross over circuit.

Products	Outline	Adjusted resistivity	Viscosity (at 25°C) (VT-06)	Curing condition
TU-〇〇-8	Carbon conductive paste for fixed resistance	100Ω $1k\Omega$ $10k\Omega$ $100k\Omega$ /□/14 μ m (Film thickness)	500-700 dPa・s	170°C × 60min
BTU-〇〇-10	Carbon conductive paste for sliding resistance	100Ω $1k\Omega$ $10k\Omega$ $100k\Omega$ /□/15 μ m (Film thickness)	400-500 dPa・s	170°C × 60min

* "〇〇" is used for resistance value. ex. 100Ω type TU-100-8

Products	Outline	Sheet resistivity (Film thickness 20 μm)	Viscosity (at 25°C)	Curing condition
TU-10S	For key contact / cross over circuit	15.0Ω	300-500 dPa・s (VT-04F)	150°C×30min
FTU-16R	For key contact / cross over circuit (for FPC)	20.0Ω	300-500 dPa・s (VT-04F)	150°C×30min
FTU-30LT2	Low temperature curing, For contact / cross over circuit on FPC	30.0Ω/□ 80°C×60min 20.0Ω/□ 130°C×30min	300-500 dPa・s (VT-06)	80°C×60min 130°C×30min

Carbon paste for vacuum forming

For curved surface 3D of sensors such as touch panel.

Products	Outline	Max.stretch ratio at forming	Resistivity	Viscosity (at 25°C) (VT-06)	Curing condition
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FTU-100P-1	Thermal dry type	80%	150Ω/□	500-700 dPa·s	100℃×30min
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Carbon paste for elastic substrate

For wearable and stretchable electronics applications.

Products	Outline	Max.stretch ratio at forming	Resistivity	Viscosity (at 25℃) (VT-06)	Curing condition
FTU-2K-SC2	Thermal dry type	100%	2kΩ/□	350-450 dPa·s	80℃×30min

Copper paste for PTF Conductor on rigid board

Conductive paste for keyboard switch and jumper circuit.

使用用途に応じたラインナップをご用意

Product lineups suitable for various applications, Carbon Paste
適合不同工藝使用用途の產品陣容 碳膏

カーボンペースト

導電性カーボンペースト

Conductive Carbon Paste / 導電性碳膏

TU-10S / FTU-30LT

特徴

Features
特徴

導電性フィラーの高含率化により
低抵抗 (体積抵抗値: $10^{-2}\Omega \cdot \text{cm}$) を実現

Realization of low resistance (vol. resistance: $10^{-2}\Omega/\text{cm}$)
by increasing conductive filler content.
通過導電性填充劑的高含量化來實現低阻 (體積阻抗值: $10^{-2}\Omega/\text{cm}$)

仕様

Specifications
規格

特性項目 Characteristic items 特性項目	TU-10S	FTU-30LT	BTU-〇〇-10	備考 Remarks 備註
用途 Application 用途	硬質基板 接点・クロスオーバー回路用 For contact crossover circuit on rigid board 剛性基板上的接点 / 交叉線路用	低温硬化 フレキシブル基板 接点・クロスオーバー回路用 Low temperature curing For contact crossover circuit on flexible board 低温固化 軟性基板上的接点 / 交叉線路用	可変抵抗体用 For variable resistor application 可變阻抗体用	—
粘度 (25°C) Viscosity 黏度	400dPa·s (VT-04F)	400dPa·s (VT-06)	500dPa·s (VT-04)	粘度計型式 Types of viscometer
硬化条件 Curing condition 固化條件	150°C×30min	80°C×60min 130°C×30min	170°C×60min	熱風循環式乾燥炉 Hot air circulating drying oven 熱風循環式乾燥爐
面積抵抗値 Sheet Resistivity 面積阻抗值	15Ω / □	30Ω / □ 20Ω / □	任意に調整可能 Can be adjusted as desired 可任意調整	膜厚 20μm 換算 Converted as 20μm thickness 膜厚 20μm 換算

使用実績

Actual Usage
Record
使用実績

TU-10S / FTU-30LT

リモコン、電卓、電話機等のキーボード基板の
接点抵抗体やクロスオーバー回路形成に使用

Used to form crossover circuit or contact-point resistor on keyboard
substrate of remote controller, calculator, telephone set and such.
使用在遙控器、電子計算機、電話機等鍵盤基板上形成接点阻抗体及交叉線路

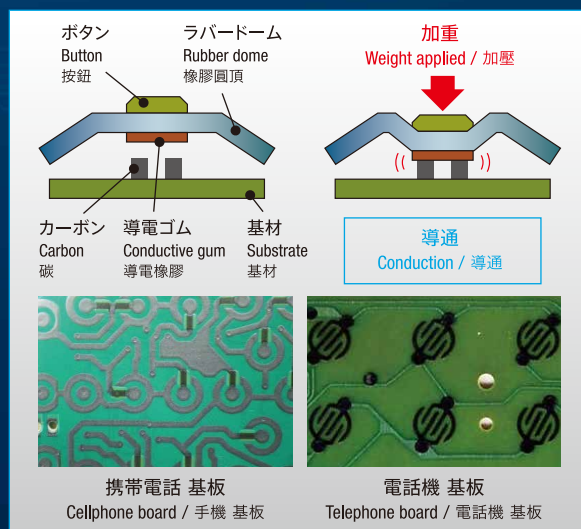
採用例

Application
Example
採用例子

TU-10S / FTU-30LT

接点抵抗構造例

Example of contact-point resistor / 接点阻抗結構例子



可変抵抗体用カーボンペースト

Carbon Paste for variable resistance / 可變阻抗体用的碳膏

BTU-〇〇-10

表面が平滑で堅牢な硬化膜は
優れた摺動性能と寿命回数が得られる

Cured film with smooth and robust surface allows for
durable performance and high-leveled durability cycles.
表面既平滑又堅牢的固化塗膜可取得優異的耐磨擦性能以及壽命次數

BTU-〇〇-10

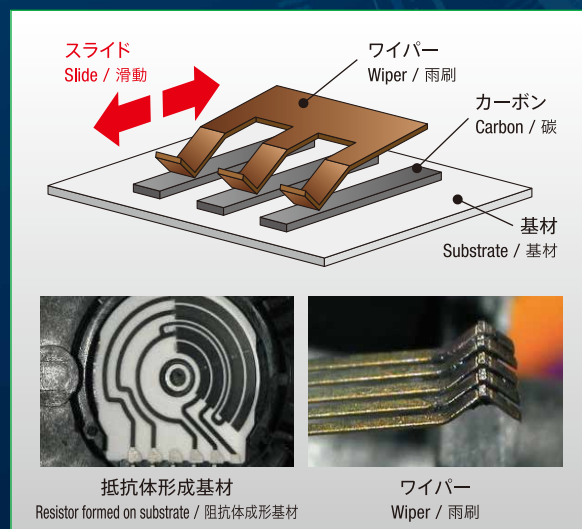
高信頼性を要求される
自動車用センサー材料として数多くの実績

Good usage record as sensor material for automobiles,
which requires high reliability.
作為可靠性要求高的汽車傳感器材料，擁有多數的實績

BTU-〇〇-10

可変抵抗構造例

Example of variable resistor / 可變阻抗結構例子



※本カタログ記載の数値は代表値であり、規格値ではありません。Numerical values shown on this catalog are typical values, not values of standard. / 本目錄記載的數值為代表值，並非規格值