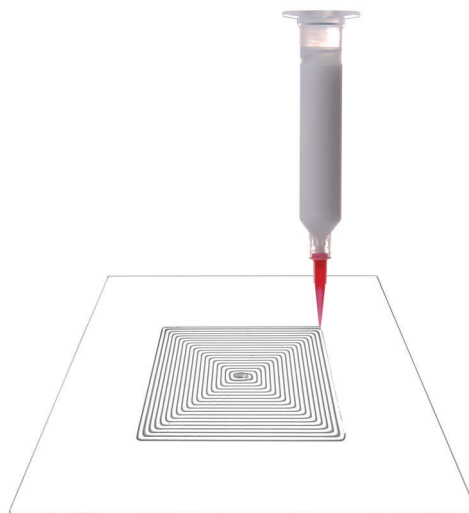


# DryPaste® G2 HC-K

## Dispensable Dryer



### HIGHLIGHTS

#### General Features

- Highly purified dispensable dryer
- High moisture sorption capacity
- Very fast sorption kinetics
- No need for curing
- High flexibility
- Typical thickness range from 10 µm to 100 µm
- Solvent-free, siloxane based

#### Applications

- Active Matrix OLED displays
- Passive Matrix OLED displays
- OLED lighting systems
- Organic photovoltaic devices
- Organic sensors
- OFETs
- OLETs
- Organic lasers

### Product Description

DryPaste® G2 HC-K is a high capacity, fast sorption kinetics, solventless and highly purified dispensable dryer, designed for use in OLEDs and organic electronics applications. Due to its viscosity it can be applied by needle dispensing, blading or syringe.

DryPaste G2 HC-K works as an irreversible moisture getter.

Material Property	Typical value
Appearance	White paste
Viscosity at 25 °C (cP) (*)	185,000
Density (g/cm <sup>3</sup> )	1.3
Nominal moisture capacity (wt %)	> 19
Moisture sorption kinetics (wt %) 100 µm thick film (22 °C/55% RH)	> 12.8 after 2 hours > 14.9 after 4 hours
Storage temperature (°C)	2 to 8
Shelf life (months)	6 (**)
Pot life (RT, < 10 ppm H <sub>2</sub> O) (days)	> 5
Storage atmosphere	Dry air or nitrogen
Decomposition temperature (°C)	> 300 °C

(\*) at a shear rate of 45 s<sup>-1</sup>

(\*\*) based on available data

### Processing

Bring DryPaste G2 HC-K to room temperature before use. No mixing is required.

Apply via needle dispensing, blading or slot die on the desired surface. Due to the fast moisture adsorption kinetics, dispensing is strongly recommended under nitrogen or dry air environment.

Compatible surfaces are:

- Glass
- Stainless Steel and other metals
- Polymer films (e.g. PET, PEN, PI) and engineered films (e.g. PET/SiO<sub>x</sub>).

Suggested syringe dispensing parameters are:

- Needle: 585 µm
- Pressure: 40 psi
- Speed: 20 mm/s
- Dispense gap: 0.4 mm

No curing required.



## DryPaste G vs DryPaste G2 HC-K sorption kinetics comparison

DryPaste-G moisture capacity specification is > 13wt % at 25 °C, 55% RH.

		DryPaste-G	DryPaste-G2 HC-K	Improvement
Nominal moisture capacity (wt %)		> 16.3	> 19.0	+ 17 %
Moisture sorption (wt %)	After 2 hours	> 4.7	> 12.8	+170 %
	After 4 hours	> 6.9	> 14.9	+115 %

### Cleaning

Typical solvent used for cleaning is acetone or Hexamethyldisiloxane (HMDS).

### Shipping and Storage

Shelf life of DryPaste G2 HC-K is 6 months if properly stored (keeping the barrier bag sealed or the container in glove box).

DryPaste G2 HC-K recommended storage temperature is between 2 and 8 °C.

### Handling and Air Exposure

DryPaste® G2 HC-K exposure to ambient air should always be avoided, in order to prevent loss of sorption capacity.

Pot life under dry atmosphere is longer than 5 days.

## DryPaste-G2 HC-K

Dispensable Dryer

The SAES Group manufacturing companies are ISO9001 certified, the Asian and Italian companies are also ISO14001 certified. Full information about our certifications for each company of the Group are available on our website at: [www.saesgroup.com](http://www.saesgroup.com)

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