

Make & Connect the new

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Nano Materials – Hybrid graphene manufactur	red in a hybrid method
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Hi-puri

99at%≥C (O≤0.95at%, S≤0.05at%) High purity, Particle-size: 5μm, Thickness: <5nm High-performing graphene, dispersion, conductivity and thermal conductivity.

Hydra

Hydra

Hydra

Hydra

Graphene designed to induce changes in the physical properties of the base.

Composite – Meet graphene with infinite possibilities

Hi-puri Coated Al	Used as a material to suppress the separation between graphene - metal. Particle-size: 21 µm, made from Hi-puri coated in aluminum.
Hydra Coated Al	Used as a material to suppress the separation between graphene - metal. Particle-size: 21 µm, made from Hydra is coated in aluminum.
Hi-puri Fuctionalized SnO ₂	Applied as a material for NO_2 gas measurement at room temperature. Particle-size: $1.8\mu\text{m}$, made from the functionalized SnO_2 by $3\text{wt}\%$ of graphene.
Hi-puri Fuctionalized Ag	Available for contact materials and semiconductor devices. Particle-size: 10µm powder made from the functionalized Ag by 3wt% of graphene.
Hi-puri Riched SnO ₂	Particle-size: 11.8µm, 30wt% of SnO ₂ nanoparticles are functionalized on graphene.
Hi-puri Riched ZnO	Particle-size: 11µm, 30wt% of ZnO nanoparticles are functionalized on graphene.
Hi-puri Riched Ag	Particle-size: 11µm, 30wt% of Ag nanoparticles are functionalized on graphene.

Paste - Conductive paste

HICON-T	Max 900°C (available), 1002/sq, Gel type, High conductivity, High temperature adhesion, Hardness: 3H, Non-volatile, Life waterproofing product. (Silkscreen available)	
HICON-N	Enough applying time & workability - when silkscreening, Mid-viscosity, Max 350°C (available), 29.6 Ω /sq.	
HICON-V	Flexibility, Strong waterproofing, Good diffusion, Curing conditions: (Surface) 5 secs at 25°C. Maximum available temperature: 200°C, 99.6 O/sq	

Ink form Flexibility Strong waterproofing Good diffusion Curing conditions

Ink - Conductive ink

HICON-I	irface) 20 secs at 25°C, Maximum available temperature: 200°C, 99.6 Ω /sq.	
HICON-S	For Spray, Flexibility, Strong in water condition, Good diffusion, Curing conditions: (Surface) 50 secs at 25°C, Maximum available temperature: 200°C, 99.6 Ω/sg.	

Paint - Heat-resistant paint

HIST-C	Hardness: more than 6H, Insulated, Excellent adhesion and life waterproofing product.	
HIST-CS	For spraying. Same as HIST-C.	
HIST-P	Possible to apply thinly spraying, Strong flame retardant. Hardness: more than 6H. Insulation, Excellent adhesion and life waterproof product.	
HIST-PS	For spraying. Same as HIST-P.	

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Unit – Heater parts, 300% efficiency, 1/3 of power consumption (compared to ceramic heaters)

Hience-F	0.2mm of thickness, Flexible film heater, Appearance material: Polyimide Maximum available temperature: 200°C.	
Hience-U	400°C(Stable use), 1.5mm of thickness, Plate heaters, Heating the 500mmx120mm area by 220V/800W/400°C.	
Hience-SU	600°C(Stable use), Thickness: 1.5mm, Plate heaters, Heating the 50mmx50mm area by 28V/87W/600°C.	

Module - Block heater module, 300% efficiency, 1/3 power consumption (compared to PTC heaters)

	Modules that easy expansion of three-axis between parts.
Hience-M	By 220V/400W, Heating the air in 130°C with 2m/s wind speed
	By 28V/87W, Heating the air in 80°C with 3.5m/s wind speed.

Material for Electric - Composite and components for gas sensor devices

SnO₂ for Gas sensing 25°C, Room temperature detecting the NO₂ gas.

Metal Casting Materials – Castings materials capable of mass-producing graphene metal alloys

Hi-puri Al mixture	Particle-size: 21μm,	When using ours as an
Hi-puri Al composite	Hi-puri and aluminum mixture/composite.	additives or main materials for casting alloys, can improve and control elasticity, yield, tensile strength and elongation.
Hydra Al mixture	Particle-size: 21µm, Controlling characteristics by regulating hydrogen content in Hi-puri and aluminium mixture/composite.	
Hydra Al composite		