



PRODUCTNAME	APPLICATIONS	SPECIAL FEATURES
2D hexagonal boro	n-nitride	
B-LEAF 19900		- few-layers hexagonal-Boron Nitride (h-BN) in powder form - lateral crystal size: approx. 130nm - crystal thickness: <5nm
B-LEAF 10001	 Only few atomic-layer thickness Very high chemical and thermal stability High compatibility Heat-dissipating coatings and films Electrically insulating coatings and films Barrier coatings and films Aging and corrosion protective coatings for different substrates Anti-abrasion / Anti-wear coatings Textile finishing Polymer compounding Other uses where thermal management and/or substrate protection are required Low dosage level (typically from 0.5% to 5%) 	 two-dimensional <i>h</i>-BN concentrate for aqueous systems resin-free based on sterically stabilized few-layer hexagonal boron-nitride water based dispersion with easier processability and handling compared to Powder specifically designed to provide functionalities to waterborne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal conductivity, electrical insulation, anti-abrasion and barrier properties
B-LEAF 10101		 two-dimensional <i>h</i>-BN concentrate for high to medium polarity systems resin-free based on sterically stabilized few-layer hexagonal boron-nitride dispersed in 1-methoxy-2-propanol with easier processability and handling compared to powder specifically designed to provide functionalities to medium-high polarity solvent-borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal conductivity, electrical insulation, anti-abrasion and barrier properties





PRODUCTNAME	APPLICATIONS	SPECIAL FEATURES
B-LEAF 10201		- two-dimensional <i>h</i> -BN concentrate for medium polarity systems
	- Only few atomic-layer thickness	 resin-free based on sterically stabilized few-layer hexagonal boron-nitride dispersed in n-butyl acetate with easier processability and handling compared to powder specifically designed to provide functionalities to medium polarity solvent-borne systems
	 Very high chemical and thermal stability High compatibility Heat-dissipating coatings and films Electrically insulating coatings and films Barrier coatings and films Aging and corrosion protective coatings for different substrates Anti-abrasion / Anti-wear coatings 	 for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal conductivity, electrical insulation, anti-abrasion and barrier properties
B-LEAF COATING 11001	 Textile finishing Polymer compounding Other uses where thermal management and/or substrate protection are required Low dosage level (typically from 0.5% to 5%) 	 - anticorrosion paint based on two-dimensional <i>h</i>-BN - acrylic 2K corrosion-inhibiting paint - based on mixed single-/few-layer hexagonal boron nitride flakes acting as physical barrier against corrosive species
		 especially for long-term corrosion protection in humid or corrosive environments the paint can be applied on metallic and printed circuit board (PCB) substrates for spray coating, brush and roll painting and doctor blading drying at low temperature: 20°C for 48 h or 60°C for 1 h
		- very good adhesion to steel, stainless steel, sandblasted steel, zinc-based inorganic primer, galvanized steel, aluminum and aluminum alloys, cast iron and plastics





PRODUCTNAME	APPLICATIONS	SPECIAL FEATURES
B-LEAF 10301	 Only few atomic-layer thickness Very high chemical and thermal stability High compatibility Heat-dissipating coatings and films Electrically insulating coatings and films Barrier coatings and films Aging and corrosion protective coatings for different substrates Anti-abrasion / Anti-wear coatings Textile finishing Polymer compounding Other uses where thermal management and/or substrate protection are required Low dosage level (typically from 0.5% to 5%) 	 two-dimensional <i>h</i>-BN concentrate for low polarity systems resin-free and toluene-free based on sterically stabilized few-layer hexagonal boron-nitride dispersed in xylene with easier processability and handling compared to powder specifically designed for low polarity or nonpolar solvent-borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal conductivity, electrical insulation, anti-abrasion and barrier properties
B-LEAF 10401		 two-dimensional <i>h</i>-BN concentrate for low polarity systems resin-free based on sterically stabilized few-layer hexagonal boron-nitride dispersed in toluene with easier processability and handling compared to powder specifically designed for low polarity or nonpolar solvent-borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal conductivity, electrical insulation, anti-abrasion and barrier properties





PRODUCTNAME	APPLICATIONS	SPECIAL FEATURES
2D hexagonal graph	iene	
G-LEAF 09900		- few-layers hexagonal-Graphene (h-graphene) in powder form - lateral crystal size: approx. 1'000nm - crystal thickness: <4nm
G-LEAF 00001	Graphene is the strongest and thinnest material known , it improves electricity and heat conduction, lubrication, abrasion- resistance, barrier-properties and mechanical resistance. - Only few atomic-layer thickness - Very high chemical and thermal stability - High compatibility - Composite materials - Polymer compounding - Heat-dissipating coatings and films - Electrically conductive coatings and films - Electrically conductive coatings and films - Encapsulants - Encapsulants - Anti-abrasion and anti-wear coatings - Low dosage level (typically from 0.1% to 5%)	 two-dimensional <i>h</i>-graphene concentrate for aqueous systems resin-free based on sterically stabilized few-layer hexagonal graphene dispersed in water with easier processability and handling compared to powder specifically designed for waterborne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal- and electrical conductivity, anti-abrasion resistance
G-LEAF 00101		 two-dimensional <i>h</i>-graphene concentrate for medium-high polarity solvent borne systems resin-free based on sterically stabilized few-layer hexagonal graphene dispersed in 1-methoxy-2-propanol with easier processability and handling compared to powder specifically designed for medium-high polarity solvent borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal- and antistatic conductivity, anti-abrasion resistance

4





PRODUCTNAME	APPLICATIONS	SPECIAL FEATURES
G-LEAF 00201	Graphene is the strongest and thinnest material known , it improves electricity and heat conduction, lubrication, abrasion- resistance, barrier-properties and mechanical resistance. - Only few atomic-layer thickness - Very high chemical and thermal stability - High compatibility - Composite materials - Polymer compounding - Heat-dissipating coatings and films - Electrically conductive coatings and films - Antistatic coatings and films - Encapsulants - Aging protective and anti-corrosion coatings for different substrates - Anti-abrasion and anti-wear coatings - Low dosage level (typically from 0.1% to 5%)	 two-dimensional <i>h</i>-graphene concentrate for medium polarity solvent borne systems resin-free based on sterically stabilized few-layer hexagonal graphene dispersed in n-butyl acetate with easier processability and handling compared to powder specifically designed for medium polarity solvent borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal- and electrical conductivity, anti-abrasion resistance two-dimensional <i>h</i>-graphene concentrate for non-polar solvent borne systems resin-free and toluene-free based on sterically stabilized few-layer hexagonal graphene dispersed in xylene with easier processability and handling compared to powder specifically designed for non-polar solvent borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal- and electrical conductivity, anti-abrasion resistance





PRODUCTNAME	APPLICATIONS	SPECIAL FEATURES
G-LEAF 00401	Graphene is the strongest and thinnest material known , it improves electricity and heat conduction, lubrication, abrasion-resistance, barrier-properties and mechanical resistance.	 two-dimensional <i>h</i>-graphene concentrate for non-polar solvent borne systems resin-free based on sterically stabilized few-layer hexagonal graphene
	 Only few atomic-layer thickness Very high chemical and thermal stability High compatibility Composite materials Polymer compounding Heat-dissipating coatings and films Electrically conductive coatings and films Antistatic coatings and films Encapsulants Aging protective and anti-corrosion coatings for different substrates Anti-abrasion and anti-wear coatings Low dosage level (typically from 0.1% to 5%) 	 dispersed in toluene with easier processability and handling compared to powder specifically designed for non-polar solvent borne systems for functional and smart coatings, textile finishing and solution-processed polymer compounding to increase mechanical strength, thermal- and electrical conductivity, anti-abrasion resistance