

KUBT, Inc. Bloomfield Hills Michigan 48302

				Classifica	ation by E	lectrolyte	Function				
Ordinary electrolyte Page 2 & 3	Polymer electrolyte Page 5	High temperature electrolyte Page 10	Low temperature electrolyte Page 9	High-discharge rate electrolyte	Column electrolyte Page 4	Gel electrolyte Page 6	LiMn2O4 electrolyte	LiCoO2 electrolyte	LiFePO4 electrolyte Page 11	Anti-overcharged electrolyte Page 7	Flame-resistant electrolyte
			(	Classificat	ion by Ele	ectrolyte C	omponen	t			
Binar	Binary electrolyte (Bi-component)				y electrolyt	e (Tri-comp	onent)	Mı	ulti-compon	ent electrol	yte



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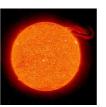
SALES@KUBT.US

011-248-747-4700

# **Ordinary Type Electrolyte**

	Technica	l Parameters		
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$ $(mS/cm)$			
JP-04-C	1.21 ± 0.03	10.5±0.5	EC, DMC, EMC, LiPF <sub>6</sub>	Type: Binary Electrolyte Suitable Battery Type: most steel shell and aluminum shell lithium-ion batteries Battery Cathode: contain electro-graphite
JP-04-E	1.21 ± 0.03	10.5±0.5	EC, DMC, EMC, LiPF <sub>6</sub> ,	Type: Binary Electrolyte Suitable Battery Type: most steel shell and aluminum shell Lithium-ion batteries Battery Cathode: contain natural graphite primarily
JP-05-A	1.21 ± 0.03	11.0±0.5	EC, DMC, EMC, LiPF <sub>6</sub> ,	Type: Binary Electrolyte Suitable Battery Type: most steel shell and aluminum shell lithium-ion batteries Battery Anode: contain Lithium Manganese Battery Cathode: contain natural graphite primarily
JP-06-A	1.21 ± 0.03	10.5±0.5	EC, DEC, EMC, LiPF <sub>6</sub> ,	Type: Binary Electrolyte Suitable Battery Type: most steel shell and aluminum shell Lithium-ion batteries Battery Cathode: contain natural graphite primarily

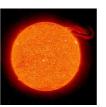
					Type: Binary Electrolyte
JP-12-A	1.20	$\pm$	$9.5 \pm 0.5$	EC, EMC, LiPF <sub>6</sub>	Suitable Battery Type: most aluminum shell lithium-ion batteries
JF-12-K	0.03		9.5±0.5	EC ENC LIFF6	Battery Anode: contain Lithium Manganese
					Battery Cathode: contain electro-graphite primarily
				Type: Binary Electrolyte	
	1.20				Suitable Battery Type: most steel shell and aluminum shell lithium-ion
JP-01-A	0.03	<b>+</b>	$9.5 \pm 0.5$	EC, EMC, LiPF <sub>6</sub>	batteries
	0.03			Battery Anode: contain Lithium Manganese	
			Battery Cathode: contain electro-graphite primarily		



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# **Column Type Electrolyte**

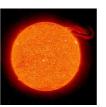
	Technica	al Parameters		
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)		
				Type: Ternary component series electrolyte
				Suitable Battery Type: column batteries
JY-01-A	$1.22\pm$	11.0±0.5	EC、DMC、EMC、LiPF <sub>6</sub>	Battery Anode: contain LiCoO3 or LiFePO4
	0.03	11.0±0.5		Battery Cathode: contain electro graphite
				Performance: overall good



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# Polymer Type Electrolyte Lithium Rechargeable Electrolyte

	Technica	al Parameter		
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)		
				Type: Ternary component series electrolyte.
	1. 22±			Suitable Battery Type: soft pack batteries
JH-01-A	0.03	10.5 $\pm$ 0.5	EC、DEC、EMC、LiPF <sub>6</sub>	Battery Anode: contain Lithium Cobalt Oxide, Lithium Manganese, or
	0.03			blends.
				Battery Cathode: contain electro graphite or natural graphite
				Type: Ternary component series electrolyte.
JH-02-A	$1.21\pm$	10.5±0.5	EC、DEC、EMC、LiPF <sub>6</sub>	Suitable Battery Type: soft pack batteries
Jn-02-A	0.03	10.5±0.5	EC, DEC, EMC, LIFF6	Battery Anode: contain Lithium Cobalt Oxide
				Battery Cathode: contain electro graphite or natural graphite
				Type: Ternary component series electrolyte.
JH-03-A	$1.22 \pm$	10.5±0.5	EC, DEC, EMC, LiPF <sub>6</sub>	Suitable Battery Type: soft pack batteries
JU-09-Y	0.03	10.0±0.5	LO, DEO, EMO, LIPP6	Battery Anode: contain Lithium Cobalt Oxide or Lithium Manganese
				Battery Cathode: contain electro graphite or natural graphite



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# Gel Type Electrolyte Lithium Rechargeable Electrolyte

	Technica	l Parameters		
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)		
	1. 18±			Type: Ternary component series electrolyte.
JN-01-A	0.03	$8.5\pm0.5$	EC, DEC, PC, LiPF <sub>6</sub>	Suitable Battery Type: polymer rechargeable Lithium-ion battery
	0.00			
	1. 18±			Type: Binary component series electrolyte.
JN-02-A	0.03	$8.5 \pm 0.5$	EC、DEC、LiPF <sub>6</sub>	Suitable Battery Type: polymer rechargeable Lithium-ion battery
	0.03			



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# Anti-Overcharging Type Electrolyte Lithium Rechargeable Electrolyte

	Technica	l Parameter	Basic	
Model	Density	Conductivity	Composition	Characteristic and Uses
	$(g/cm^3)$	(mS/cm)	Composition	
JC-01-A	1.21 ± 0.03	10.5±0.5	EC 、 DEC 、 EMC、LiPF6	Suitable Battery Type: most steel shell and aluminum shell lithium-ion batteries  Special Feature: meet 3C/10V Liquid Lithium-ion Battery over-charging requirement
JC-02-A	1.22± 0.03	10.5±0.5	EC 、 DMC 、 EMC、LiPF6	Suitable Battery Type: most steel shell and aluminum shell lithium-ion batteries  Special Feature: meet 3C/10V Liquid Lithium-ion Battery over-charging requirement
JC-03-A	1.23± 0.03	10.5±0.5	EC 、 DMC 、 LiPF6	Suitable Battery Type: most steel shell and aluminum shell lithium-ion batteries Special Feature: meet 3C/10V Liquid Lithium-ion Battery over-charging requirement

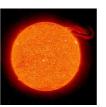


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# **High Power Rate Electrolyte**

	Technica	al Parameter		
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)		
				Type: Quaternary component series electrolyte (Multiple Component
	1. 24±		EC,EMC,DMC,DEC,	Series)
JB-01-A	0. 03	12.5 $\pm$ 0.5	LiPF <sub>6</sub>	Suitable Battery Type: 10C Li-ion rechargeable batteries, 15C Li-ion
	0. 03		LILI.6	rechargeable batteries
				Special Feature: high conductivity, high discharge rate, high performance
				Type: Quaternary component series electrolyte (Multiple Component
				Series)
JB-02-A	$1.24\pm$	13.0±0.5	EC, EMC, DMC, PC,	Suitable Battery Type: 15C rechargeable Li-ion batteries, 20C
JD 02 K	0.03	15.0 ± 0.5	LiPF <sub>6、(</sub>	rechargeable Li-ion batteries, 25C Li-ion rechargeable batteries
				Special Feature: high conductivity, high discharge rate, high
				low-temperature performance
				Type: Ternary component series electrolyte
JB-03-A	1. 24±		EC EMC DMC DC	Suitable Battery Type: 15C rechargeable Li-ion batteries, 20C
JD 03 A	0.03	1 13 0 ± 0 5	EC、EMC、DMC、PC、 LiPF <sub>6</sub>	rechargeable Li-ion batteries, 30C rechargeable Li-ion batteries
	0. 03		L111.6	Special Feature: high conductivity, high discharge rate, high
				low-temperature performance

				Type: Ter	rnary comp	onent se	eries electrolyte	)			
JB-04-A	1. 24±			Suitable	<b>Battery</b>	Type:	15C recharg	geable	Li-ion b	atteries,	20C
JD 04 K	0.03	12.5 $\pm$ 0.5	EC, DMC, LiPF <sub>6</sub>	rechargea	ble Li-ion	batteries	s, 30C recharge	able Li	i-ion batter	ries	
	0.03			Special	Feature:	high	conductivity,	high	discharge	rate,	high
				low-temp	erature per	formand	ce				



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# Low Temperature Type Electrolyte Lithium Rechargeable Electrolyte

	Technic	al Parameter		
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)		
	1. 20±			Type: Ternary component series electrolyte
JD-01-A	0.03	8.5 $\pm$ 0.5	EC, EA, EMC, LiPF <sub>6</sub>	Suitable Battery Type: all type rechargeable Li-ion batteries
	0.03			Special Feature: high performance in low-temperature
	1. 21±			Type: Ternary component series electrolyte
JD-02-A	0.03	10.5 $\pm$ 0.5	EC、MPC、EMC、 LiPF <sub>6</sub>	Suitable Battery Type: all type rechargeable Li-ion batteries
	0.03			Special Feature: high performance in low-temperature



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#### **Lithium Rechargeable Electrolyte**

#### High Temperature Type Electrolyte Lithium Rechargeable Electrolyte

	Technica	al Parameter		
Model	Density	conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)		
	1. 19±			Type: Ternary component series electrolyte
JG-01-A	0.03	$10.5 \pm 0.5$	EC, EMC, DEC, LiPF <sub>6</sub>	Suitable Battery Type: all type rechargeable Li-ion batteries
	0.03			Special Feature: high performance in high-temperature
	1. 21±			Type: Ternary component series electrolyte
JG-02-A	0.03	7.5 $\pm$ 0.3	EC、DEC、LiPF <sub>6</sub>	Suitable Battery Type: all type rechargeable Li-ion batteries
	0.03			Special Feature: high performance in high-temperature
	1. 20±			Type: Ternary component series electrolyte
JG-03-A	0.03	8.5 $\pm$ 0.5	EC, DEC, PC, LiPF <sub>6</sub>	Suitable Battery Type: all type rechargeable Li-ion batteries
	0.03			Special Feature: high performance in high-temperature
				Type: Ternary component series electrolyte.
	$1.20\pm$			Suitable Battery Type: soft pack batteries
JG-04-A	0.03	$8.5 \pm 0.5$	EC, DEC, PC, LiPF <sub>6</sub>	Battery Anode: contain Lithium Manganese
	0. 03			Battery Cathode: contain electro graphite
				Special Feature: high performance in high-temperature



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# LiFePO<sub>4</sub> Type Electrolyte Lithium Rechargeable Electrolyte

	Technical	l Parameter	Basic	
Model	Density	Conductivity	Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)	Composition	
				Suitable Battery Type: LiFePO <sub>4</sub> lithium-ion batteries
JL-01-A	1. 24±	12.5±0.5	EC, EMC, DEC,	Battery Cathode: contain LiFePO <sub>4</sub>
JL-01-A	0. 03	12.5 ± 0.5	PC、LiPF <sub>6</sub>	Special Feature: high battery cycle life, high electric current discharge
				performance
				Suitable Battery Type: LiFePO <sub>4</sub> lithium-ion batteries
JL-02-A	1.21 ±	$10.5\pm0.5$	EC, EMC, EA,	Battery Cathode: contain LiFePO <sub>4</sub>
JL UZ K	0. 03	10.5±0.5	LiPF <sub>6</sub>	Special Feature: enhance high battery life cycle, high electric current
				discharge performance



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# Lithium Manganese Type Electrolyte Lithium Rechargeable Electrolyte

	Technical Parameter			
Model	Density	Conductivity	Basic Composition	Characteristics and Uses
	$(g/cm^3)$	(mS/cm)	_	
	1. 21± 0. 03	7.5±0.3	EC、DEC、LiPF <sub>6</sub>	Suitable Battery Type: LiMn2O4 Lithium Ion batteries
JM-01-A				Battery Anode: contain Lithium Manganese
				Battery Cathode: contain electro graphite or natural graphite
				Special Feature: enhance high battery life cycle and enhance
				performance in high-temperature
	1. 21± 0. 03	10.5±0.5	EC, DMC, EMC, LiPF <sub>6</sub>	Suitable Battery Type: LiMn2O4 Lithium Ion batteries
JM-02-A				Battery Anode: contain Lithium Manganese
				Battery Cathode: contain electro graphite
	1. 24± 0. 03	11.0±0.5	EC, DMC, EMC, LiPF <sub>6</sub>	Suitable Battery Type: LiMn2O4 Lithium Ion batteries
				Battery Anode: contain Lithium Manganese
JM-03-A				Battery Cathode: contain electro graphite
				Special Feature: enhance high battery life cycle and enhance
				performance in high-temperature
JM-04-A	1.21±	10.5±0.5	EC DEC EMC 1:DE	Suitable Battery Type: LiMn2O4 Lithium Ion batteries
	0.03	10.0±0.5	EC、DEC、EMC、LiPF <sub>6</sub>	Battery Anode: contain Lithium Manganese

		Battery Cathode: contain electro graphite