

Liaoning Jiashun Chemical Science and Technology Co., Ltd

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L-series

Moisture proof low temperature electrical grade MGO powder

Features and applications:

L-series is heavy silicone treatment, moisture proof low temperature electrical grade MGO powder. There are four different grades. L-series is used for manufacturing non-air heating elements (such as copper, aluminum, Bundy and stainless steel immersion heater, strong convection heater, contact heat conduction heater). L-series is unadvisable to do high temperature heat treatment, such as 1050C annealing. L-series has great moisture proof performance. We suggest simple sealing. Before sealing, we suggest dry process at 200-350C to elements.

Main chemical composition:

Grades	Main chemical composition %					
	MgO	CaO	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	LOI
JS-L9	≥97.5	≤1	≤0.9	≤0.3	≤1.5	≤0.2
JS-L8	≥97	≤1.5	≤0.9	≤0.4	≤2	≤0.2
JS-L7	≥96	≤2	≤0.9	≤0.5	≤2.5	≤0.25
JS-L6	≥95.5	≤2	≤0.9	≤0.6	≤3	≤0.35

Model No.	Grade	Suggested Application	W/cm ²
JS-L9	A	350C (water heating)	6W/cm ²
JS-L8	B	350C (water heating)	<6W/cm ²
JS-L7	C	350C (water heating)	5W/cm ²
JS-L6	D	350C (water heating)	<4W/cm ²

Mesh Analysis:

Mesh	+40	+60	+80	+140	+200	+325	-325
Particle size (μm)	+425	+250	+180	+106	+75	+45	-45
Content (%)	≤0.5	26±6	25±6	25±6	12±3	11±3	5±3

Remark: Contents of +425 μm and -45 μm are controlled tightly. In order to acquire needed

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tap density and flow rate, other contents will be adjusted. (Custom-made for special specifications)

Tap density: T.D. (g/cm^3) : 2.30-2.45 g/cm^3

Flow rate: (F.T. s/100g) : 35 \pm 4

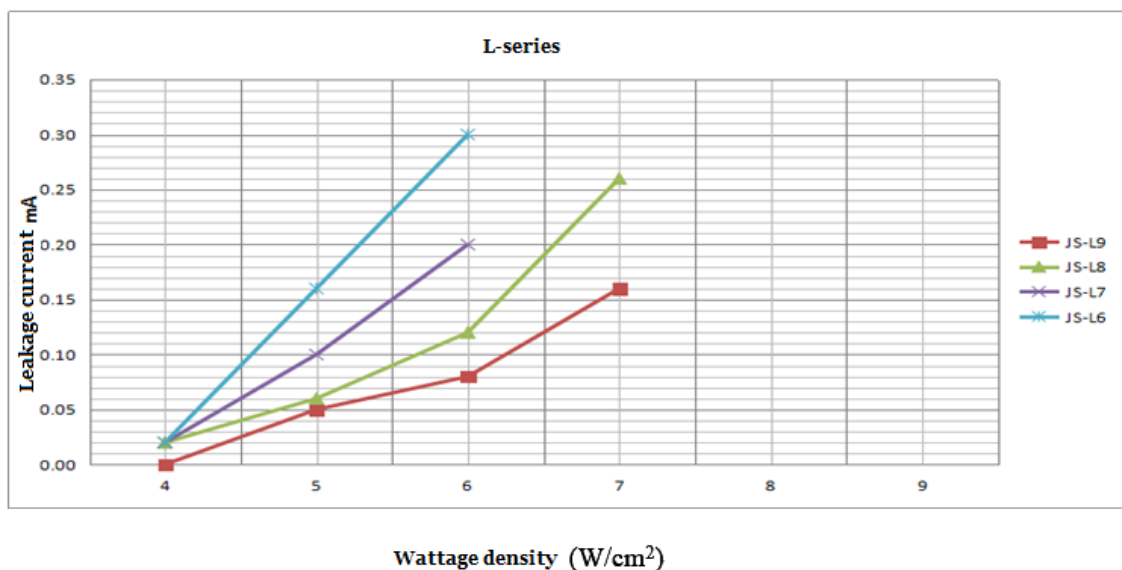
(F.R. s/100g) : 175 \pm 20

Package: 25KG/Carton, 1MT/pallet; Ton bag; Plastic bucket

Safety and storage:

Electrical grade MGO powder is non-toxic, but with tiny amount of dust. We suggest to use mask and gloves in application. MGO powder should be stored in dry places. Storage time suggested is less than 12 months after delivery.

Leakage Current VS Surface Wattage Density



Test Conditions:

Tube material: SUS304, ϕ 8.0 \times 0.5, L500, resistance wires: 0Cr25AL15, ϕ 0.35mm, coil dia ϕ 2.3mm

Shrink tubing: ϕ 8.0 \rightarrow ϕ 6.6mm, heating length: 450 \pm 10mm, dry process: 250 $^{\circ}\text{C}$ /1Hr, energization

time: 30Min

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Grade	Main Electrical Specifications									
	Cold		Leakage current when heating(mA)						Humidity-state	
	Insulation MΩ	Hipotv/ 1mA	4W /cm ²	5W /cm ²	6W /cm ²	7W /cm ²	8W /cm ²	9W /cm ²	Insulation MΩ	Hipot V/1mA
JS-L9	1X10 ⁶	≥2500	0.02	0.05	0.08	0.16	—	—	1X10 ⁶	≥2500
JS-L8	1X10 ⁶	≥2500	0.02	0.06	0.16	0.26	—	—	1X10 ⁶	≥2500
JS-L7	1X10 ⁶	≥2500	0.02	0.1	0.2	—	—	—	1X10 ⁶	≥2500
JS-L6	1X10 ⁶	≥2500	0.02	0.16	0.3	—	—	—	1X10 ⁶	≥2500

Special Introduction:

L-series is heavy silicone treatment, moisture proof low temperature electrical grade MGO powder. There are four different grades. Compared with normal low temperature powder from other China suppliers, L-series has following quality advantages.

1, great moisture proof performance

Insulation of low temperature MGO powder from other suppliers can come to 2000MΩ only.

Insulation of L-series can come to 1x10⁶MΩ.

Without sealing, after Humidity test (humidity 92%, 50C) 72 hours, there is no decline of insulation. With great moisture proof performance, we can improve production cycle; lower requirements of sealing materials. Simple sealing with common silicone.

2, application

L-series can manufacture heating elements with very high insulation performance and low application temperature.

3, Low dust

It makes good surroundings when filling powder.