

Large particle zinc oxide for heat dissipation

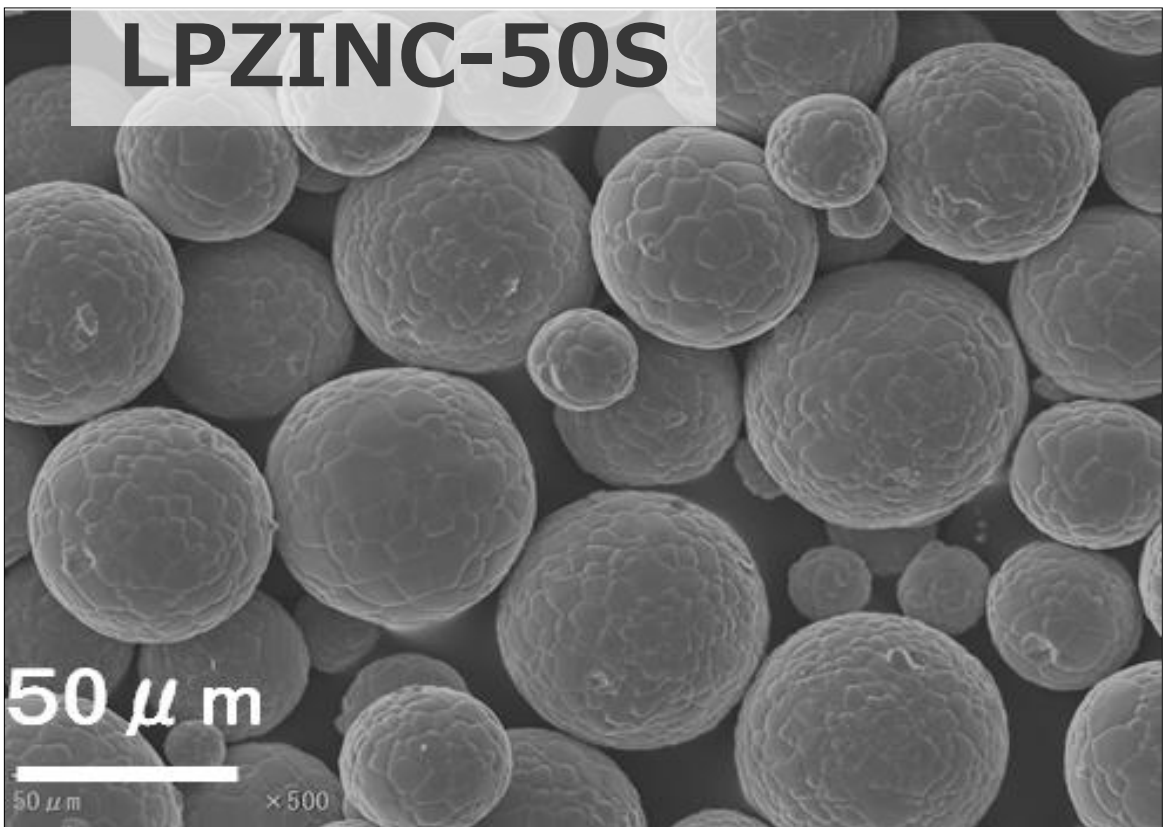
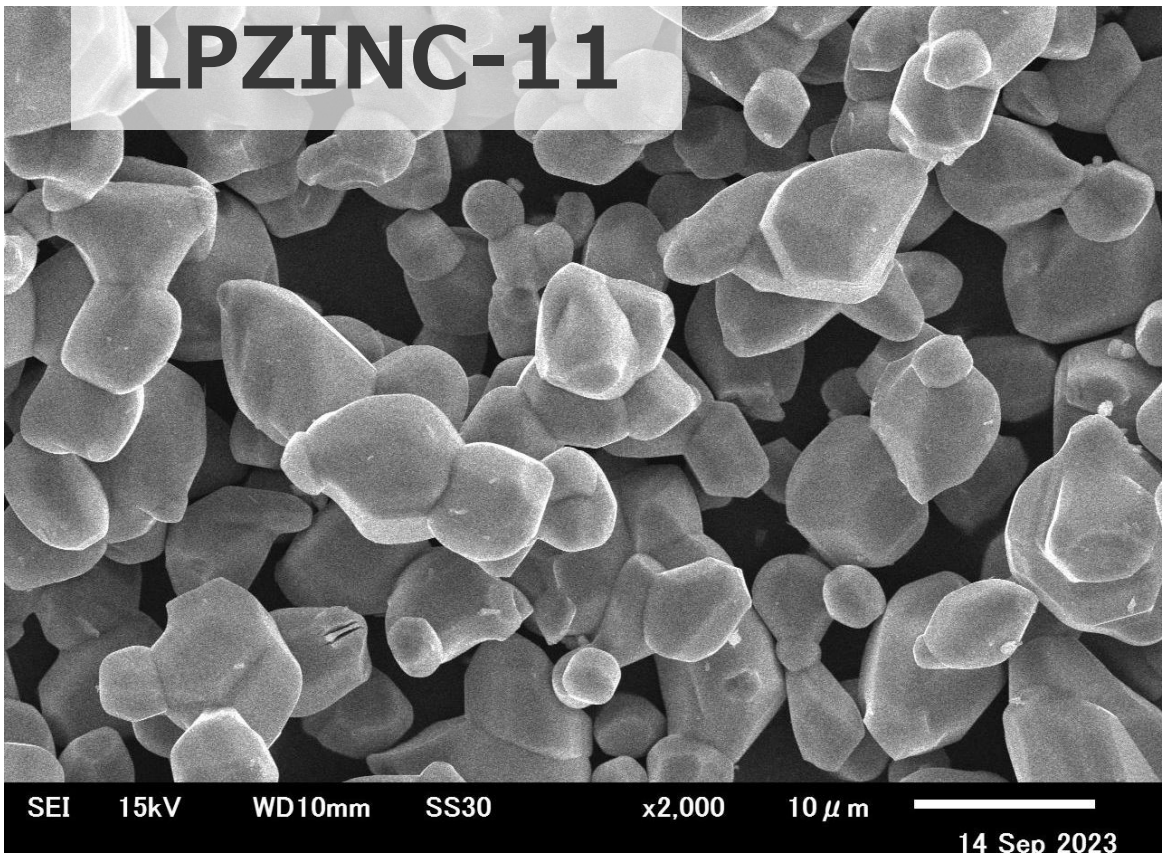
LPZINC・LPZINC-S series

Features

- ◆ High density filling into various resins can dramatically improve thermal conductivity.
- ◆ The softness of the material reduces contact thermal resistance and does not wear down the kneader components.
- ◆ It has been used in multiple applications as a high heat dissipation paste.

Physical properties

	LPZINC series	LPZINC-S series	LPZINC-KS/-HS series
Product name	LPZINC-2, -5, -11, -20	LPZINC-6S, -10S, -20S, -30S, -50S	LPZINC-2-KS、-20S-KS etc. LPZINC-2-HS、-20S-HS etc.
Particle size (μm)	2, 5, 11, 20	6, 10, 20, 40, 70	2, 5, 11, 20, 40, 70
Features	Standard Grade Ideal for thin film applications due to reduced coarse particles (D100<50μm)	Spherical grade Improved resin filling and fluidity	Surface treatment* grade resin compatibility KS: Silicone treatment HS: Silane treatment



*We also have a lineup of organic and inorganic surface treatment products.

Series	Product Name	Particle size (μm)	D10 (μm)	D50 (μm)	D90 (μm)
LPZINC	LPZINC-2	2	0.7	2.0	4.1
	LPZINC-5	5	1.8	4.1	7.3
	LPZINC-11	11	7.4	11.5	18.8
	LPZINC-20	20	9.4	20.8	35.1
LPZINC-S	LPZINC-6S	6	4.0	6.2	10.1
	LPZINC-10S	10	5.8	10.1	18.1
	LPZINC-20S	20	16.1	27.0	45.3
	LPZINC-30S	40	26.8	41.2	64.0
	LPZINC-50S	70	43.0	68.4	113.0

※This data is an analytical value and is not a guaranteed value.



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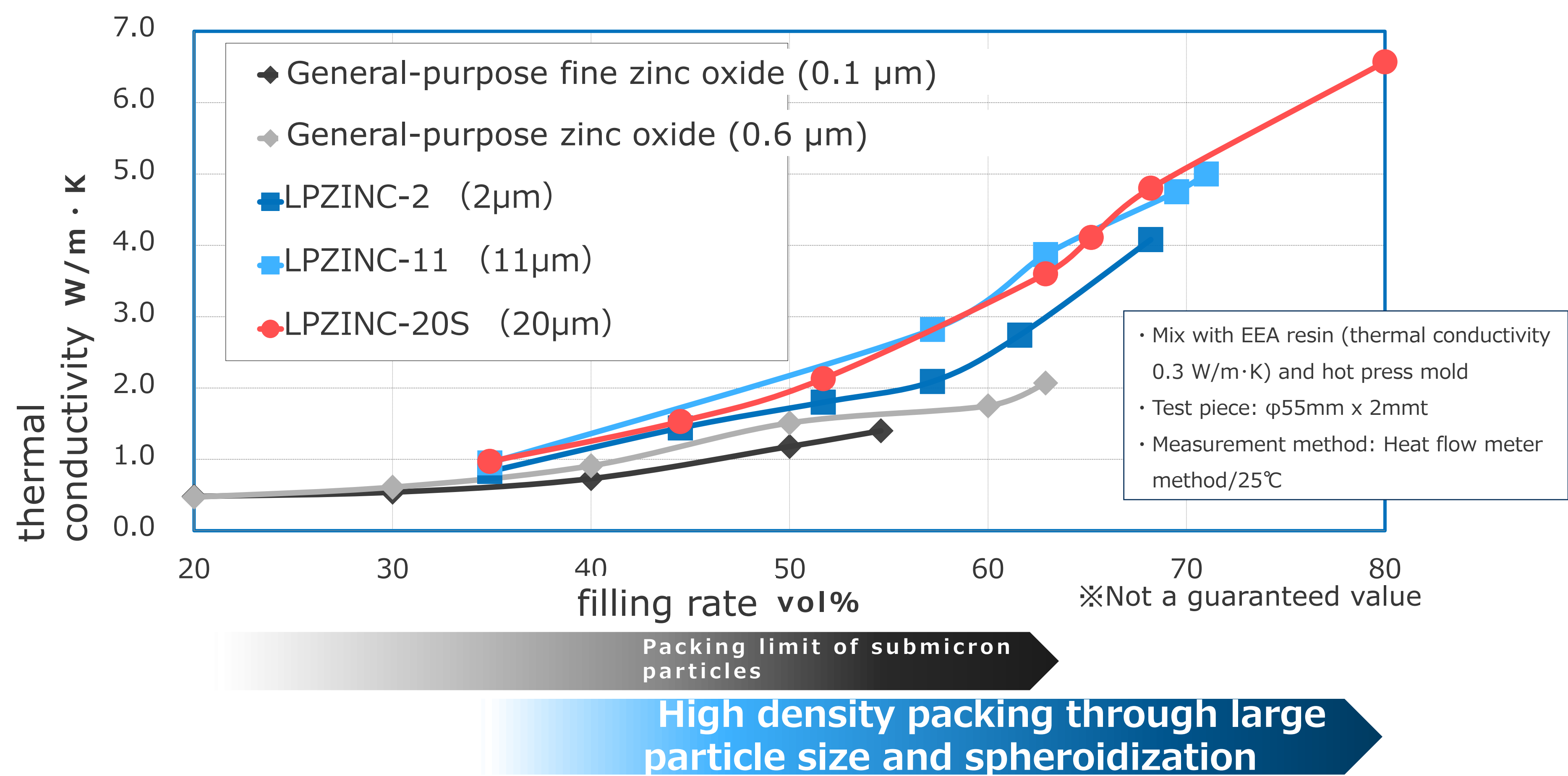
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Large particle zinc oxide for heat dissipation

LPZINC · LPZINC-S series

Thermal conductivity evaluation data

● When used alone



● When used in combination (close-packing effect)

	LPZINC-30S		Mixed Formulation
Particle Appearance			Volume ratio LPZINC-30S /LPZINC-11 /LPZINC-2 =63/4.8/2.2 vol%
Sheet cross section			
Filler filling rate	63 vol%	70 vol%	70 vol%
Thermal conductivity	2.9 W/mK	5.0 W/mK	6.5 W/mK

The combination of large and small particles further improves heat dissipation performance!



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