

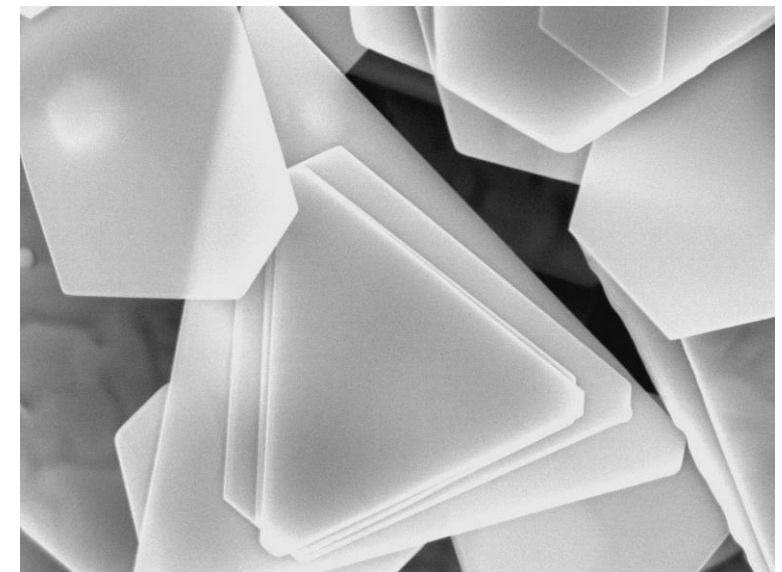
Silver Flakes



Original Ultra fine, Ultra Thin Silver Flakes

Advantages

1. High electrical conductivity and high thermal conductivity by single crystal structure.
2. High electrical conductivity and high adhesive strength by low sintering temperature property.
3. High reflectance and high lubricity by flat shape.
4. Available for fine printing by flat and fine size property.



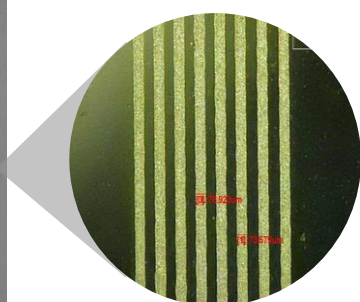
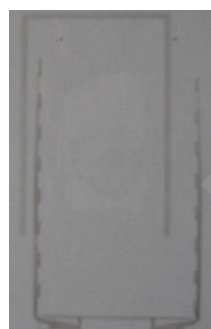
Application examples (1)

<Material for electrical devices>

Filler for conductive paste
(Wiring for electrical device)



Silver flakes are used as important conductive filler for making smaller, high performing electric devices.

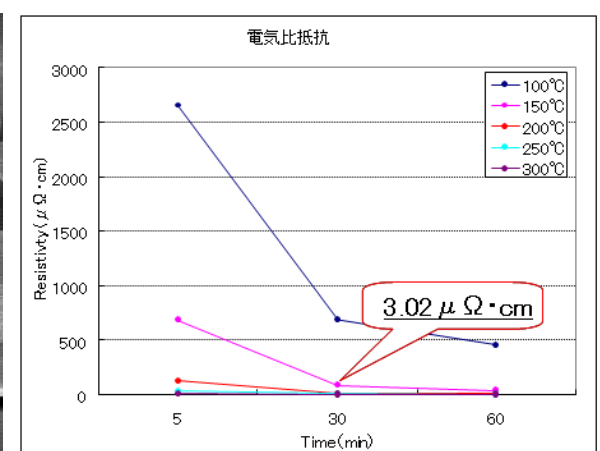
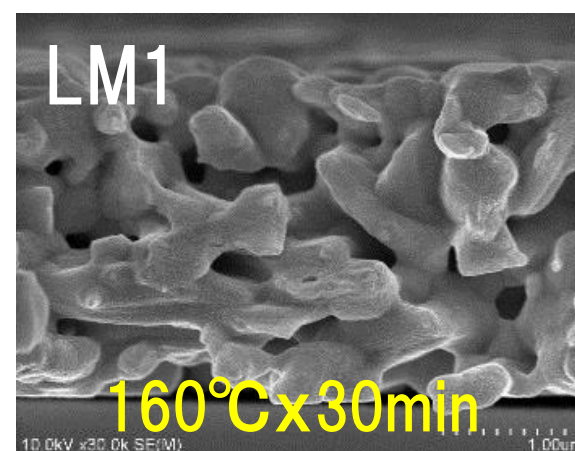


Available for fine printing. The Flat shape allows for conductivity even when it is bent.

Filler for conductive adhesive
(Conductive bonding and Heat releasing)



Used as filler for conductive adhesive with high performance and stability.



High conductivity and bonding strength with lower sintering temperature.

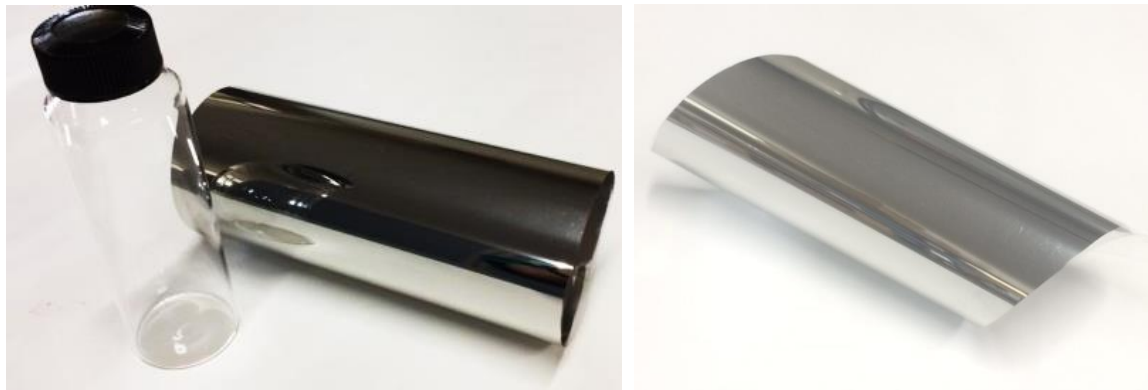


TOKUSEN KOGYO CO.,LTD.
FUNCTIONAL WIRE BUSINESS UNIT
ATTN: MASUOKA
TEL:+81-794-63-9003

Application examples (2)

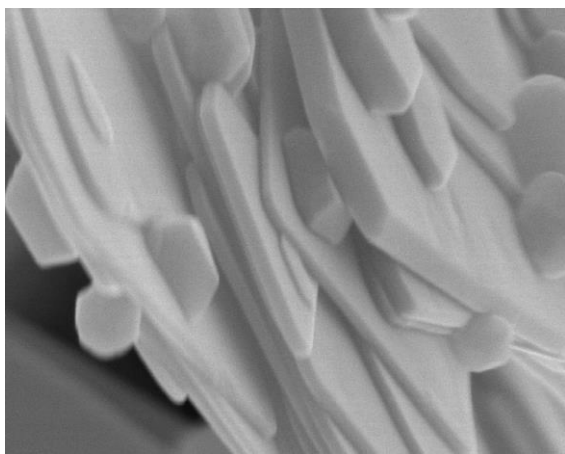
<Paint-Functional coating>

Metallic color /mirror paint, ink



Natural silver color and mirror surface can be achieved by flat shape.

Lubricity, Functional coating paint



High lubricity by flat shape property.

Application to other usage

Unique flat and thin shape properties can be apply to material for various fields.

Other properties



Solvent dispersion type(organic solvent/water) and dry powder type are available.

Dry powder type are also available. Hydrophobic and Hydrophilic can be controlled by organic coating.

Quality characteristics

Product Name	N300	M13	M27	LM1
D10(μm)	-	0.5 ≤	1.0 ≤	-
D50(μm)	0.4 ± 0.1	2.0 ± 0.5	4.5 ± 1.0	1.0 ± 0.3
D90(μm)	-	4.8 ≥	10.0 ≥	3.6 ≥
Melting temp(C)	180Cx30min	200Cx30min	200Cx30min	160Cx30min
Volume resistance(μΩ · cm)	4.0	3.6	4.2	4.9

