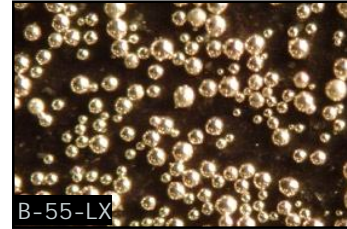


CONDUCTOSPHERES™

Silver coated hollow microspheres

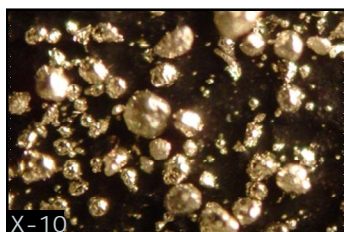
CONDUCTOSPHERES are hollow glass microspheres coated with silver. They can be incorporated into paints, adhesives and composites to provide these materials with electrical conductivity and to shield against electromagnetic interference (EMI).



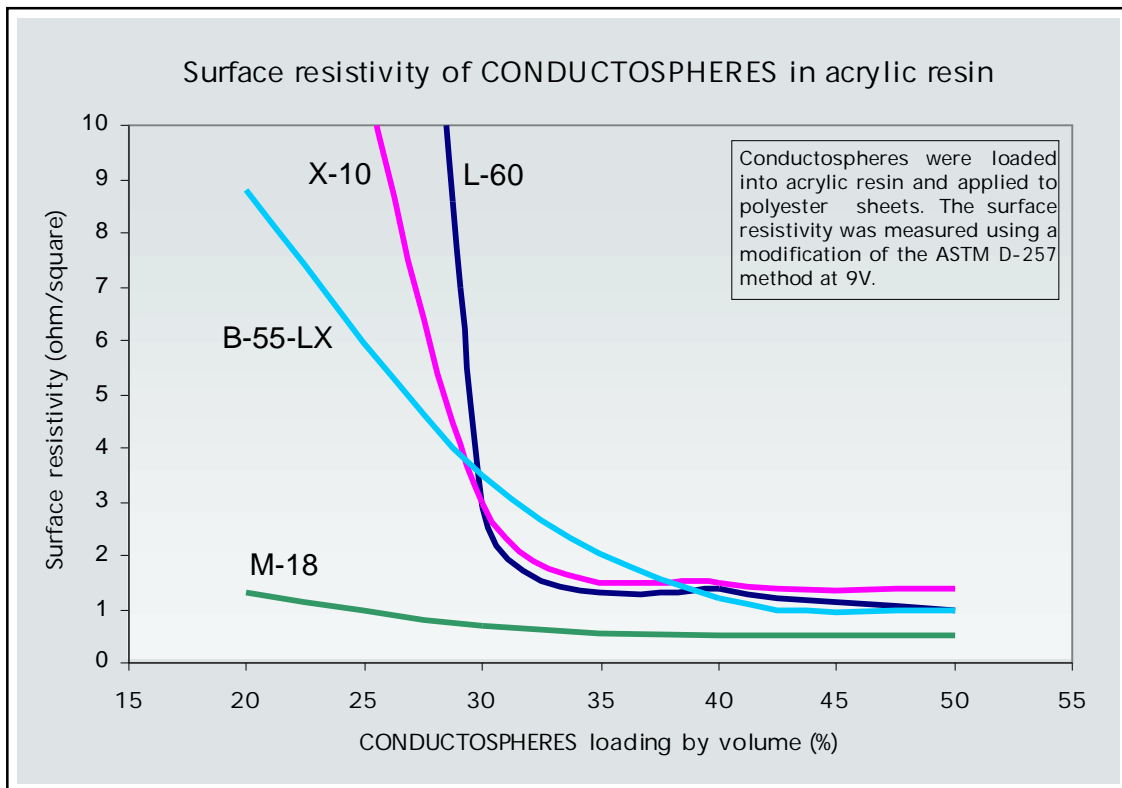
CONDUCTOSPHERES have low particle densities and so provide a significant weight reduction when used in place of conventional conductive fillers such as solid silver particles.

The CONDUCTOSPHERES range includes products based on borosilicate glass microspheres, aluminosilicate cenospheres and expanded volcanic ash particles. The size, density and silver loading of CONDUCTOSPHERES can also be tailored to meet the customer's specifications.

Product	Base microsphere material	Average particle size (µm)	True particle density (g/cm ³)	Bulk density (g/cm ³)	Crush strength (psi)	Silver content (weight %)
B-55	aluminosilicate	56	0.58	0.34	1700	15
B-55-LX	aluminosilicate	48	0.50	0.27	>1700	16
M-18	borosilicate	19	0.72	0.40	28000	24
M-30	borosilicate	30	0.65	0.43	10000	24
L-60	borosilicate	68	0.23	0.14	600	32
X-10	expanded volcanic ash	90	0.44	0.14	2000	25



Example application data for CONDUCTOSPHERES

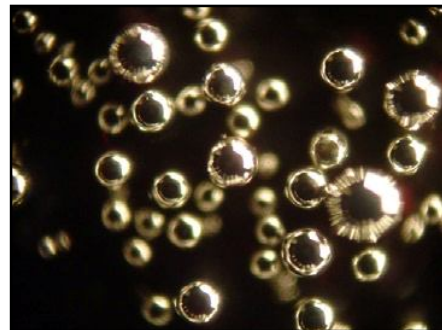


Electromagnetic Shielding

All of the CONDUCTOSPHERES products gave shielding of 45-55 dB at 3 GHz when incorporated at 40% by volume into an acrylic resin film of 50-100 μm thickness.

CONDUCTOSPHERES M-18 gave shielding of 45 dB at only 20% loading.

Data courtesy of Napier University



Distributed by:



Innovations in Microtechnology

Santa Barbara, CA, USA

info@cospheric.com

Phone: +1 (805) 687-3747

www.cospheric.com