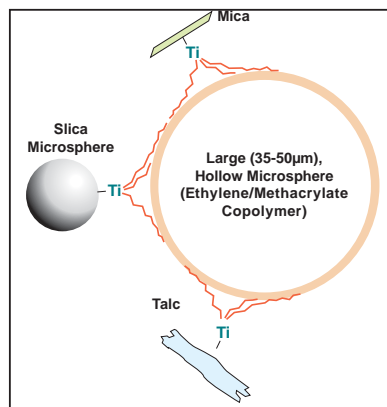


Surface Treated Microspheres & Complexes

USA Program

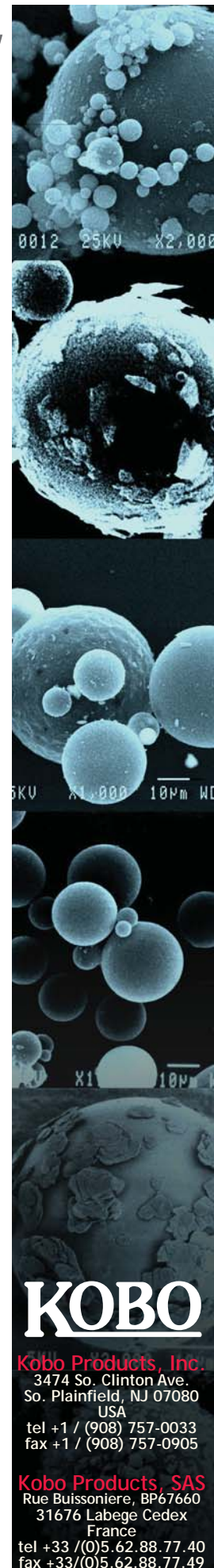
Microsphere Complexes: Kobo's patented technology covalently bonds Isopropyl Titanium Triisostearate to various substrates such as Platelets, Spheres and Pigments. The resulting complex offers the **best balance of properties possible**, including:

- lightweight, powdery afterfeel
- soft focus effect
- high oil absorption
- pearlescent effect



Patent #US 5356617
Pigment-material-microsphere complexes
and their production

Trade Name	INCI Name	Size (µm)	Oil Abs (g/100g)	Density (g/in ³)
DSPCS-I2	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	23	280	1.0
DSPCS/20N-I2	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	32	550	0.7
DSPCS/3H-I2	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	30	375	0.7
DSPCS/3N-I2	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	20	470	0.6
DSPCS/H-I2	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	23	800	0.4
DSPCS/N-I2	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	28	350	0.8
SPCAT-I2	Talc (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	20	193	1.0
SPCM-I2	Mica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	28	185	1.4
SPC/MST-547-I2	Polymethylsilsesquioxane (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	27	255	0.4
SPC/KTZ CLASSIC WHITE-I2	Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	25	268	1.2
SPC/KTZ COPPER-I2	Mica (And) Iron Oxides (C.I. 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	22	214	1.2
SPC/KTZ GOLD LAME-I2	Mica (And) Titanium Dioxide (And) Iron Oxides (C.I. 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	22	260	1.2
SPC/KTZ INTERVAL BLUE-I2	Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	27	260	1.4
SPC/KTZ INTERVAL GOLD-I2	Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	24	232	1.2
SPC/KTZ INTERVAL RED-I2	Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	24	205	1.3
SPC/KTZ INTERVAL GREEN-I2	Mica (And) Titanium Dioxide (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	24	243	1.3
SPC/KTZ ROUSSILLON-I2	Mica (And) Iron Oxides (C.I. 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	23	230	1.2
SPC/KTZ SUNBURST GOLD-I2	Mica (And) Titanium Dioxide (And) Iron Oxides (C.I. 77491) (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	53	260	1.0



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Surface Treated Microspheres & Complexes

Surface Treated Microspheres: have been developed for easier use in formulations containing oil.

Treated Microspheres offer the following properties:

- enhanced skin feel
- soft focus
- better blendability on the skin
- better adhesion
- all of the properties of the treatment that it contains

Treatment	Trade Name	INCI Name	Size (µm)	Oil Abs (g/100g)	Density (g/in ³)
Lipophilic Treatment	BPA-5I5	Polymethyl Methacrylate (And) Isopropyl Titanium Triisostearate	10	50	3.8
	POMP 610-LS15	Nylon-6 (And) Lithium Stearate	11	89	3.29
Natural Treatment	New Cellulo Beads D-10-PC2	Cellulose (And) Hydrogenated Lecithin	11	35	5.13
	CT-2 Nylon SP-500	Nylon-12 (And) Chitosan	5	65	3.0
Perfluoro Treatment	PF-5 BPD-500	HDI/Trimethylol Hexyllactone Crosspolymer (And) C9-15 Fluoroalcohol Phosphate (And) Silica	12	58	9.3
	PF-5 Nylon SP-10	Nylon-12 (And) C9-15 Fluoroalcohol Phosphate	10	68	5.1
	PF-5 Nylon SP-500	Nylon-12 (And) C9-15 Fluoroalcohol Phosphate	5	77	3.2
	PF-5 MSS-500/3N	Silica (And) C9-15 Fluoroalcohol Phosphate	3	35	10.6
Silicone Treatment	Sunsil-130-SC	Silica (And) Methicone	7	98	7.4
	Sunsil-130LSC	Silica (And) Methicone	7	75	8.5
	Sunsil-130HSC	Silica (And) Methicone	7	150	6.0
	Sunsil-150H-SC	Silica (And) Methicone	15	160	7.7
	Silica Shells-SH	Silica (And) Methoxy Amodimethicone/Silsesquioxane Copolymer	3	500	0.7
	MSS500-NS5	Silica (And) Methoxy Amodimethicone/Silsesquioxane Copolymer	12	105	8.5
	MSS-510-11SH	Silica (And) Triethoxycaprylylsilane	7	110	5.3
	Sunsil-130LAS	Silica (and) Triethoxycaprylylsilane	7	75	6.7
	Sunsil-150HAS	Silica (and) Triethoxycaprylylsilane	12	175	N.A.

This chart was prepared to assist in formulating with Microsphere Complexes. The information contained herein is believed to be accurate at the time of printing, but should not be used as a substitute for product specification sheets. N.A. = Not available at the time of printing