

METALLIC STEARATES REFERENCE GUIDE

TYPICAL PROPERTIES

Metallic Stearates	Total Ash %	Free Fatty Acid %	Moisture %	Melting Point °C	Appearance	Major Applications
Aluminum Stearate 200 F (di-stearate)	9.1	4.4	1.0 max	155	White Powder	Gelling Agent, Waterproof Additive, Cosmetic
Aluminum Stearate 300 F (di-stearate)	7.3	13.0	1.0 max	145	White Powder	Gelling Agent, Lubricant
Aluminum Stearate 400 F (tri-stearate)	5.8	23.0	1.0 max.	107	White Powder	Gelling Agent, Lubricant
Barium Stearate 100 P	29.5	1.0	1.0 max	222	White Powder	PVC Stabilizer, Lubricant
Calcium Stearate 325	10.6	0.4	2.8	155	Fine Powder	Internal/External Lubricant
Calcium Stearate Coarse	11.5	0.2	3.2	155	Coarse Powder	PVC Extrusions, NSF Certified
Calcium Stearate L-155 L-155V [∇]	10.5	0.3	2.5	155	White Powder	Lubricant, Waterproof Additive, PVC Stabilizer, FDA, NSF
Lithium Stearate 200	6.1	0.25	0.5	216	White Powder	Lubricant, Thickener
Calford G-200 Lithium Stearate	N/A	0.2	0.3	216	White Powder	Grease Pre-Thickener
Lithium 12-Hydroxystearate [∇]	4.8	0.5	0.3	215	Off-white Powder	Lubricant, Gelling Agent for Greases
Magnesium Stearate SAK MS P [∇]	8.0	1.0	5.0	140	White Powder	Lubricant, Release Agent, Clear Melt, Vegetable
Potassium Stearate	15.1	0.5	1.0	216	Off-white Powder	Lubricant, Process Aid
Sodium Stearate 100 100V [∇]	10.4	0.5	1.5	210	White Powder	Lubricant, Emulsifier, Gelling Agent
Zinc Stearate 201 201V [∇]	14.4	0.1	0.1	124	White Powder	Lubricant, Waterproof Additive, FDA
Zinc Stearate 325	14.4	0.1	0.1	124	White Powder	Lubricant, Waterproof Additive, FDA
Zinc Stearate 201ND 201NDV [∇]	14.4	0.1	0.1	124	Off white Flakes	Lubricant, Waterproof Additive, Non Dusting, FDA
Zinc Stearate 149/249	15.5	0.5	0.20	124	Powder (149 Fine, 249 Coarse)	Lubricant, Dusting Agent, Waterproof Additive
Zinc Stearate 161	14.5	0.4	0.5	118 min	White Powder	Anti-Tack Agent for Rubber
Zinc Stearate SAK ZS PLB [∇]	13.8	1.0 Max	0.5	122	White Powder	Ultra fine, lubricant, Paint & Lacquer
Calford® WP [∇] WB [∇] Ethylene bis Stearamide - EBS	<0.1	--	0.12	145	WP - Powder WB - Bead	Lubricant, processing aid for most thermoplastics,

[∇] Vegetable versions are noted with a [∇]. Grades such as Zinc Stearate 201 and Calcium Stearate L-155 are supplied in both tallow and vegetable versions.

Various packaging available including 50lb paper bags, bulk bags and drums. Custom formulations available depending on volumes and chemistry. See SDS's and PDS's for additional information.



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Dispersions & Liquids	Solids %	Viscosity cPs	D50 microns	Surfactant	Appearance	Major Applications
Calford® CD 50-S Calcium Stearate	50	300	4	APE/NPE Free	White Liquid	Paper Coating, Water Proofing, Release Agent
Calford® CD 50-W Calcium Stearate	50	210	2.5	APE/NPE	White Liquid	Paper Coating, Water Proofing, Release Agent
Calford® S-453 Zinc Stearate	50	500	N.A	APE/NPE Free	White Liquid	Lubricant, Release Agent
Calford® ZD-167 Zinc Stearate	50	400	8.5	APE/NPE Free	White Liquid	Lubricant, Waterproof Additive, Paper Coatings
Specialty Stearates (Other)	Ash, %	Free Fatty Acid, %	Moisture, %	Melting Point, °C	Appearance	Major Applications
Calford® G-760 (w/activator) Calford® G-810 (heat activated) Aluminum Octoate	17.0-21.0	--	1.0-1.5	> 220	White Powder	Gelling agent, viscosity stabilizer, oil & gas, forestry
Specialty Stearates (FDA, USP, Kosher)	Ash, %	Free Fatty Acid, %	Moisture, %	Melting Point, °C	Appearance	Major Applications
Calcium Stearate SAK CS P/USP (K) ^v	10.0	0.3	2.0	148	White Powder	Food, Pharmaceutical Release Agent, FDA, USP
Calcium Stearate SAK CS G (K) ^v	10.0	0.3	1.0	148	White Granule	Lubricant for PVC Food Applications, FDA
Magnesium Stearate SAK MS P/USP (K) ^v	8.0	0.5	6.0	140	White Powder	Food, Pharma, Release Agent, FCC FDA, USP
Sodium Stearate SAK NaS PCP2 ^v	10.0	2.0	2.0	200	Coarse Powder	Thickener, Gelling Agent for Cosmetics, vegetable
Zinc Stearate SAK ZS P/USP (K) ^v	13.3	0.5	0.5	118	White Powder	Cosmetic Lubricant, Release Agent, FDA, USP
Zinc Stearate SAK ZS G (K) ^v	13.8	0.5	0.5	118	White Granule	Heat Stable Lubricant, PVC, ABS, FDA
Specialty Stearates (Prodegradant)	Metal, %	Total Ash, %	Moisture, %	Melting Point, °C	Appearance	Major Applications
Manganese Stearate V-100 ^v V616 ^v	9.0	14.0	3.0 max	>110	Tan Powder	Prodegradant for Plastics, vegetable
Iron Stearate V-100 ^v	6.3	12.6	2.0 max	>120	Brown Granule	Prodegradant for Plastics, vegetable
Cobalt Stearate V-100 ^v	9.5	15.0	2.0 max	98	Purple Powder	Oxidation catalyst for Rubber use, vegetable
Copper Stearate V-100 ^v	10.4	13.0	0.2 max	113	Green Powder	Prodegradant for Plastics, vegetable

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