

# STEARATES

## CALCIUM STEARATE (CS) - $\text{Ca}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$

### PROPERTIES

Appearance	White Powder
Molecular Weight	606
Specific Gravity	1.05
Ash content	9.5 - 10.5%
Calcium Content	6.8 - 7.5%
Moisture Content	2% max
Bulk Density, Free Flowing	0.25 - 0.35 gm/ml
Particle Size (240 mesh)	98% min
Free Stearic Acid	1% max

### RECOMMENDED DOSAGE

0.5 - 1.0 phr

### PACKING

25 kgs. HDPE bags with Polythene Liner

### APPLICATIONS

- Primarily used as internal lubricant and co-stabilizer in PVC formulation.
- Widely used in rigid PVC pipes, profiles and cable compounds also used in reinforced suction hoses, sheets, tubings and films, Polypropylene, master batches, cement paints, pharmaceuticals, water repellent, flattening agent, mould release and in cosmetics.

## ZINC STEARATE (ZS) - $\text{Zn}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$

### PROPERTIES

Appearance	White Powder
Molecular Weight	632
Specific Gravity	1.095
Ash Content	13-15%
Zinc Content	10.45-12%
Moisture Content	0.5% max
Bulk Density, Free Flowing	0.25 - 0.35 gm/ml
Particle Size (240 mesh)	99% min
Free Stearic Acid	1% max

### RECOMMENDED DOSAGE

0.5 - 1.0 phr

### PACKING

25 kgs. HDPE bags with Polythene Liner

### APPLICATIONS

- Primarily used as a heat stabilizer and lubricant along with Calcium Stearate and other additives in PVC formulation.
- Widely used in soft PVC formulation as non-toxic stabilizer.
- Also used in master batches for Polypropylene and other plastics, cosmetics, pharmaceuticals and paints.

## BARIUM STEARATE (BS) - $(\text{C}_{18}\text{H}_{35}\text{O}_2)_2 \text{Ba}$

### PROPERTIES

Appearance	White Powder
Molecular Weight	703
Specific Gravity	1.145
Ash Content	21 - 23%
Barium Content	18.8 - 20.6%
Moisture Content	2% max
Bulk Density, Free Flowing	0.3-0.4 gm/ml
Particle Size (240 mesh)	98% min

### RECOMMENDED DOSAGE

### PACKING

25 kgs. HDPE bags with Polythene Liner

### APPLICATIONS

- Barium Stearate is used as a dry lubricant in metal processing.
- It is also used for making transparent films, flakes, cable granules and rigid materials.

## CADMIUM STEARATE (CdS) - $(\text{C}_{18}\text{H}_{35}\text{O}_2)_2 \text{Cd}$

### PROPERTIES

Appearance	White Powder
Molecular Weight	680
Specific Gravity	1.21
Ash Content	19 - 21%
Cadmium Content	16.6 - 18.4%
Moisture Content	0.5% max
Bulk Density, Free Flowing	0.35 - 0.45 gm/ml
Particle Size (240 mesh)	98% min

### RECOMMENDED DOSAGE

### PACKING

25 kgs. HDPE bags with Polythene Liner

### APPLICATIONS

- Cadmium Stearate is used as a heat stabilizer and lubricant for transparent PVC compounds.
- It is used in combination with other stabilizers like Barium Stearate and Lead Stearate.

