

DEUTSCHE CHEMICALS

LEAD STEARATE

DEUTSCHOLUB DS-620

Lead Stearate DS-620, $\text{Pb}(\text{O}_{12}\text{H}_{35}\text{COO})_2$ is the normal lead soap of commercial stearic acid. It is primarily of interest as lubricant in PVC compound since it has only moderate heat stabilising properties when used alone. It is generally use in conjunction with other stabiliser and the proportion used must be carefully regulated to suit the working conditions and lubrication requirements.

Over-addiction can cause blooming on the surface as a result of the migration of stearic acid.

TYPICAL PROPERTIES	UNIT
Appearance	Flakes
Specific gravity	1.40 ± 0.02
Moisture (% max.)	0.10
Melting Point (°C)	94-110
Lead Oxide equivalent (% PbO)	30-34
Free fatty acid (% max.)	0.60
Bulk density, tapped (g/ml)	0.40 - 0.50

APPLICATION

Lubricants are essential for the majority of PVC fabrication methods by the very nature of the polymer, Lead stearate acts as an efficient lubricant for many such processes, e.g. , extrusion , injection moulding and calendering . This lubricant is very helpful when the compound is heavily loaded with fillers such as CaCO_3 .

Lead Stearate can be used as the sole lubricant ingredient for plasticized PVC applications in particular cable coverings.

While Lead Stearate confers only low thermal stability to PVC when used alone, it shows strong synergism with other stabiliser compounds. For instance , in combination with Barium or Cadmium Stearate it will give PVC compounds increased clarity and adequate heat stability for low temperature fabrication techniques.

HANDLING & HYGIENE

All lead compounds are toxic. The safe use of these compounds can be achieved by the adoption of correct and hygienic methods of operation. Information and advice on such matters , if necessary, will be available on request from Deutsche Chemicals.

PACKING

Standard Packing- 25 Kg - nett green branded alkathene lined hessian bags with transparent inner polythene liner.

