

## COAD<sup>®</sup> 10LD CALCIUM STEARATE

### DESCRIPTION:

COAD<sup>®</sup> 10LD Calcium Stearate is a high-grade calcium stearate developed for the polymer industry. It offers significantly lower dusting than traditional stearates of finer particle size. Its larger, friable granules readily disperse during blending or processing to provide excellent mold release and lubricating properties. COAD<sup>®</sup> 10LD Calcium Stearate meets the requirements of PPI-TR3 and NSF Standard 14 for potable water.

### TYPICAL PROPERTIES

Appearance	Free flowing, granular white solid
Total Ash, %	10.3
Moisture, %	2.0
Free Fatty Acid, %	0.2
Soluble Salts, %	Nil
Softening Point, C	155°
% Thru 20 mesh	97.0
% Thru 140 mesh	20

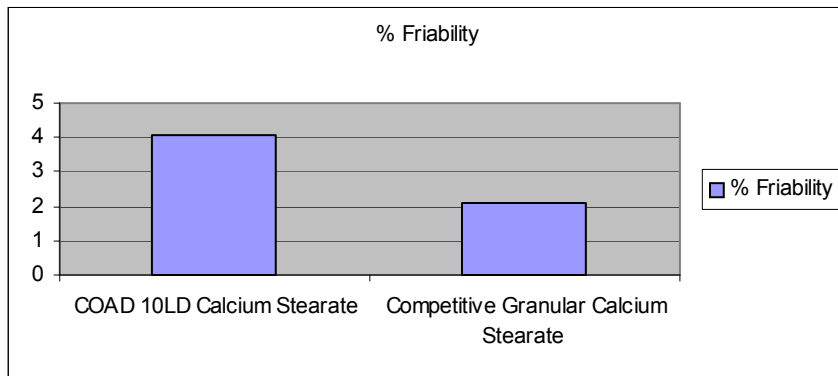
### APPLICATIONS:

- Rigid PVC compounds: COAD<sup>®</sup> 10LD Calcium Stearate acts as a dispersing aid during the blending cycle, as a lubricant and processing aid during extrusion, and as a mold release agent for injection molding.
- Polyolefins: COAD<sup>®</sup> 10LD Calcium Stearate improves stability by neutralizing acidic decomposition products in the polymerization of certain polyolefins.
- Polyester molding compounds: COAD<sup>®</sup> 10LD Calcium Stearate is an excellent mold release agent for matched metal die molding under certain conditions.

**PERFORMANCE:**

**IMPROVED FRIABILITY**

COAD® 10LD Calcium Stearate offers a more friable particle. This enables the COAD® 10LD to disperse quickly throughout your polymer.



Fines were removed by sieving thru a 140 mesh. 20g of BB's were added to residual on the 140 mesh screen and shaken for 15 minutes. Fines collected. % Friability = (weighed amount collected)(100)/original sample weight.

**RIGID PVC - FUSION/EXTRUSION**

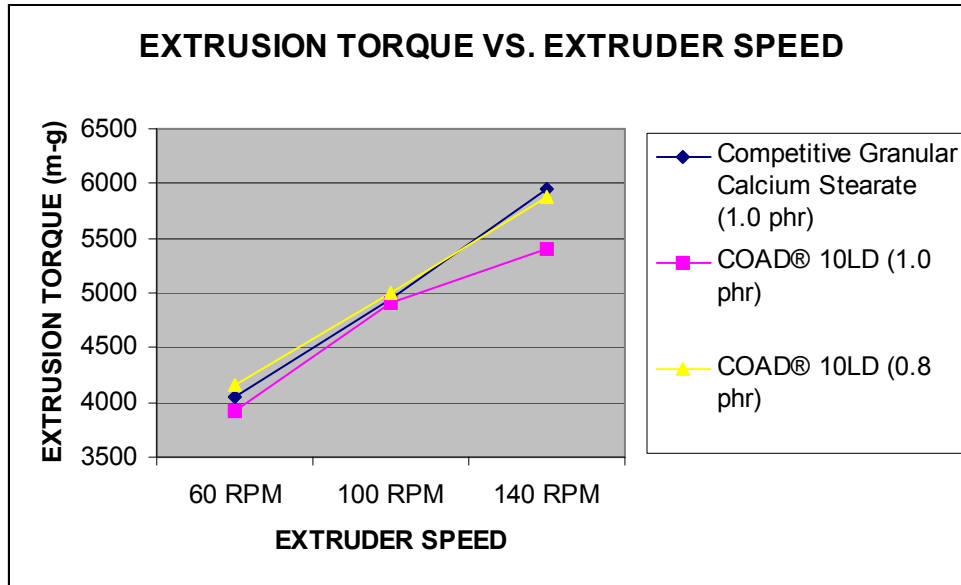
COAD® 10LD Calcium Stearate disperses easier throughout most polymers providing more efficient lubrication. This enables the end user to use less COAD® 10LD Calcium Stearate to achieve the same fusion time.

Window Profile Formulation:

PVC (K=65)	100 phr	100 phr	100 phr
Sn Stabilizer	1.20	1.20	1.20
Process Aid	1.70	1.70	1.70
Impact Modifier	4.50	4.50	4.50
Filler	5.00	5.00	5.00
Pigment	9.00	9.00	9.00
Paraffin Wax	0.60	0.60	0.60
Other Lubricants	0.85	0.85	0.85
Competitive Granular Calcium Stearate	1.00		
COAD® 10LD		1.00	0.8

Fusion Time (min:sec)	0:46	0:40	0:46
Fusion Torque (m-g)	3348	3294	3323
Torque at 60 RPM (m-g)	4057	3923	4157
Torque at 100 RPM (m-g)	4946	4907	5000
Torque at 140 RPM (m-g)	5959	5401	5880

Note: Fusion data performed on Brabender ATR with #6 mixing bowl at 197C and 80 RPM.  
Extrusion data performed on Brabender PL 2200 with 32mm, 13:1 L/D counter rotating conical vented twin screw extruder. Z1=175C, Z2=185C, Z3=190C, Die=190C.



Benefits of COAD® 10LD Calcium Stearate in extrusion performance include:

- Lower dosage
- Higher output extrusion rates
- Lower torque and amps on your extruder motor

### DYNAMIC THERMAL STABILITY (from Window Profile Formulations)

Time Min	Competitive Granular Calcium Stearate 1.0 phr	COAD® 10LD 1.0 phr	COAD® 10LD 0.8 phr
5			
10			
15			
20			
25			



## **STORAGE AND HANDLING RECOMMENDATIONS:**

- Storage** - Store at ambient temperatures away from sources of heat or from places of extreme moisture.
- Fire** - Use water from a safe distance, preferably with a fog nozzle.
- Handling** - Avoid contact with skin or eyes. Safety goggles are recommended.
- Spills** - Clean up immediately. Sweep up and discard in a closed container.
- Disposal** - Consult Federal, State, and Local regulations. Consult the telephone book or EPA for list of approved disposal companies.
- Other** - See MSDS for COAD<sup>®</sup> 10LD for additional health, safety, and environmental information.

## **PACKAGING:**

COAD<sup>®</sup> 10LD Calcium Stearate is packaged in 50lb. multiwall bags, unitized on non-returnable wooden pallets. COAD<sup>®</sup> 10LD Calcium Stearate also available in 2,000 lb. supersacks. Please contact your Norac sales representative to discuss your special packaging requirements.

### **CORPORATE HEADQUARTERS**

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