



**DPL**<sup>TM</sup>

Quality | Service | Innovation





### About us

Dhruv Polychem Pvt.Ltd formerly known as Rajendra established in 1982 by Mr. R.K Ohri whose legacy is taken over by his son Mr. Dhruvv RK Ohri who with his vision and hard work has taken the company to an international level.

Dhruv Polychem Pvt.Ltd is a leading import and trading house dealing in various kinds of Fillers, Chemicals, Pigments, Polymers and Elastomers. The company is currently associated with the world leading manufacturers for sourcing of their product range which comes under their trusted brand

Today the company Boasts of efficient systems that involve material planning, logistics management and cost effective execution. We strive "JUST IN TIME" deliveries and other inventory and product control methodologies to minimize inventory international and domestic price movement and trends of entire product chain from crude to downstream products. We have requisite infrastructure in terms of marketing department and large warehousing facilities. Our co to maximize business through optimization of the value chain and meet the expectations of our principal and clients.

TM  
Quality | Service | Innovation

### Why DHRUV POLYCHEM PVT.LTD

- Its provides the complete solution for all Polymers, Fillers,
- Chemicals, Pigments and Elastomers.
- One stop shop
- All technical backup is provided with the support of highly qualified technologists.
- Assured timely delivery.
- Update of local and international market for all products is dent to our customers time to time.
- Direct link with actual base consumers.



# DPOBLEND

SPECIALITY POLYBLEND COMPOUND



**DPOBLEND Speciality Polyblend Compound** foaming material are noted for their toughness, flexibility, low compressions set, high tenacity, soft texture, abrasion resistance, and anti-slip properties. With its excellent flexibility and resilience, **DPOBLEND** foaming rubber material has better performance than EVA while possessing a soft touch feature comparable to PU and CR foaming. **DPOBLEND** Speciality Polyblend Compound foaming material is highly compatible with raw materials such as EPDM, EVA, SBR, PP, ABS, PC, PBT, PETG, PMMA, POM PS, HIPS, etc. Its simplified formula and manufacturing process makes ideal for applications such as yoga pads, sport products, high-end comfort shoes, foaming modifications, micro cellular sheets a EVA injection and other injection moulding application.



### Advantages of DPOBLEND applied upon foaming materials

- ✓ Low temperature resistance
- ✓ Compatible with various rubber & plastic material
- ✓ Shock-proof and highly flexible
- ✓ Anti-slipper and wear resistance
- ✓ Easiness to process to reduce the production cost
- ✓ Toxicity, odor free, recyclable

### PRODUCT SPECIFICATIONS

GRADES		DE-I	DP
Colour		NATURAL	NATURAL
Hardness Shore A	ASTM D2240	26 ± 2	26 ± 2
Density	(g/cm <sup>3</sup> ) ASTM D792	0.90 ± 0.2	0.92
Tensile Strength	(kg/cm <sup>2</sup> ) ASTM D412	20	20
Elongation	(%) ASTM D412	550	550
Tear Resistance	(kg/cm) ASTM D624	15	15
Melting Point	(g/10min) ASTM D1238	60°C	80°C
Softning Point	(g/10min) ASTM D1238	30°C - 40°C	40°C - 50°C



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# FOAMING AGENTS

## AZODICARBONAMIDE

DPL chemical foaming agents are adjusted to meet the requirements of particular application by means of decomposition speed, temperature, particle size distribution and gas yield.

The composition of DPL foaming agent system can be tuned to use in sensitive polymers .

There is a suitable DPL foaming agent for nearly every thermoplastic, rubber and plastic.

Chemical foaming agents are used in a wide range of applications in plastics and rubber processing.

**By choosing the right foaming agent system**

- ✓ Weight reduction
- ✓ Raw material and cost saving
- ✓ Dimensional stability
- ✓ Heat insulation
- ✓ Noise absorption
- ✓ Special surface effects

**Can be achieved.**

- Chemical foaming agents decompose during processing in a chemical reaction which is induced by heat.
- The decomposition can be exothermic or endothermic. Exothermic foaming agents release heat while decomposing, thus providing a fast and complete decomposition.
- The effective blowing gas released is mainly nitrogen. The most important exothermic foaming agents are Azodicarbonamide ( $C_2H_4N_4O_2$ )

### PRODUCT SPECIFICATIONS

GRADES	AC - P	AC - P4575	AC - E1P	PT	EV
Appearance	FAINT YELLOW POWDER	FAINT YELLOW POWDER	FAINT YELLOW POWDER	FAINT YELLOW POWDER	FAINT YELLOW POWDER
Decomposition Temperature (°C)	200 ± 5	190 ± 5	155 ± 5	124 ± 5	136 ± 5
Gas Forming (MG/G)>	235 ± 5	232 ± 5	200 ± 5	130 ± 5	165 ± 5
Average Diameter of Granula <	6 - 8	6 - 8	6 - 8	12	12
Loss On Heating (%)<	0.15	0.15	0.15	0.16	0.16
pH Value	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5



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**DPL** a one stop shop for almost all the range of organic and inorganic pigments for conventional applications like rubber, paints, plastics, thermoplastics etc.

With more than three decade of experience in the chemical industry **DPL** sources the products from worldwide quality manufacturers of Pigments and chemicals. The company's endeavour puts life into the colours and makes the world colourful.

### Advantages of **DPL** Organic & Inorganic Pigments

- ✓ Better Dispersion.
- ✓ Supplies Equal to Customers Approved Standards.
- ✓ In House Quality Control.
- ✓ Consistency in Every Supply
- ✓ Competitive Pricing

### SOME SPECIAL PRODUCTS

Product Name	Grade	Heat Stability
Pigment Red	48:2	280°C Min.
Pigment Red	M 7987	280°C Min.
Pigment Red	4832 H	280°C Min.
Pigment Red	4836	280°C Min.
Pigment Red	122	280°C Min.
Pigment Brown	LIGHT	280°C Min.
Pigment Brown	DARK	280°C Min.
Pigment Brown	COFFEE	280°C Min.
Pigment Orange	13	280°C Min.

Product Name	Grade	Heat Stability
Pigment Orange	1340	280°C Min.
Pigment Orange	1360	280°C Min.
Pigment Orange	LC	280°C Min.
Pigment Yellow	GB	280°C Min.
Pigment Green	Parrot	280°C Min.
Pigment Green	F. Parrot	280°C Min.
Pigment Blue	15:1	280°C Min.
Pigment Blue	15:3	280°C Min.
Pigment Green	7	280°C Min.



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TALC is a metamorphic hydrated magnesium silicate with a soapy feel and pearly luster.

PROPERTIES	UNIT	TALC 10	TALC 20	TALCTP 5	TALCTR 10
PARTICLE SIZE					
Mean Particle Size – D(50)	µm	6.0 ± 1.0	7.0 ± 1.0	6.0 ± 1.0	6.0 ± 1.0
Top Cut – D(97)	µm	15.0 ± 2.0	21.0 ± 2.0	15.0 ± 2.0	15.0 ± 2.0
DRY BRIGHTNESS	%	92.0	92.0	95.0	97.0
BULK DENSITY	gm/ltr	400 ± 50	425 ± 50	400 ± 50	400 ± 50
OIL ABSORPTION	gm/100gm	42.0±1.0	40.0±1.0	42.0±1.0	40.0±1.0
MOISTURE CONTENT (EX-WORKS)	%	Max. 0.3	Max. 0.3	Max. 0.3	Max. 0.3
pH of SAT. SOLUTION		9.0 – 10.0	9.0 – 10.0	9.0 – 10.0	9.0 – 10.0
SPECIFIC GRAVITY		2.7	2.7	2.7	2.7

## DISTINCT FEATURES

- Good Surface Quality
- Lower Mould Shrinkage
- Easier Processing
- Better Transparency

## RECOMMENDED APPLICATIONS:

- Automotive Compounds
- Home Appliances
- Furniture Compounds
- LLDPE, HM, HOPE Films
- Box Strapping





# Calcite

CALCITE is a natural form of calcium carbonate widely used in Plastics, Paints, Paper and Rubber Industries

PROPERTIES	UNIT	CARB 10B	CARB 5020	CARB 1035	CARB 2060
PARTICLE SIZE					
Mean Particle Size – D(50)	µm	2.5 ± .03	3.0 ± 0.5	3.5 ± 0.5	4.0 ± 0.5
Top Cut – D(97)	µm	8.0 ± 0.5	11.0 ± 1.0	14.0 ± 1.0	20.0 ± 2.0
DRY BRIGHTNESS	%	Min. 95.5	Min. 95.5	Min 95.0	Min. 94.5
BULK DENSITY	gm/ltr	750 ± 50	800 ± 50	900 ± 50	1000 ± 50
OIL ABSORPTION	gm/100gm	24.0±1.0	21.0±2.0	20.0±1.0	19.0±1.0
MOISTURE CONTENT (EX-WORKS)	%	Max. 0.3	Max. 0.3	Max. 0.3	Max. 0.3
pH of SAT. SOLUTION		8.5 – 9.5	8.5 – 9.5	8.5 – 9.5	8.5 – 9.5
SPECIFIC GRAVITY		2.7	2.7	2.7	2.7

## DISTINCT FEATURES

- Increase in Flexural Modulus
- Increase in Dimensional Stability
- Increase in HDT
- Reduces Creeping
- Improved Processing Characteristics
- Good Dispersion

## RECOMMENDED APPLICATIONS:

- Furniture, Automobiles and Home Appliances
- Antifabrillant Masterbatches
- Colour and Additive Masterbatches
- SMC, DMC, RTM, Pultrussion
- PVC Cable Compounding
- PU Foam (Flexible and Rigid)
- Vinyl Floorings





# ZINC STEARATE SUPERFLOW

## PURE & LIGHT ZINC STEARATE

SUPERFLOW is a Zinc Stearate manufactured by a novel process developed by our R&D department having tremendous experience in precipitation and particle size/morphology control technology. The output is a unique combination of lightness and melt transparency/stability in the product and better dispersion in the base polymer. The product is technically far better than the currently available products, besides the assurance of consistent quality.

### TYPICAL PHYSIOCHEMICAL PROPERTIES

PROPERTY	UNIT	Z.S SUPERFLOW
Melting Point	°c	119
Bulk Density <sup>1,3</sup>	Gm/l	400 ± 25
Specific Gravity		1.095 ± 0.05
Electrolytes	%	0.12
Moisture (105°C) <sup>2</sup>	%	0.35
pH (2% aq. solution) <sup>4</sup>	--	6.5-7.5
Ash Content	%	13.5-14.5
ZnO Equivalent	%	13.0-14.0
Melt Quality	--	Clear & Transparent
Colour	--	White
Free Fatty Acid	%	1.38
Residue on 300 Mesh	%	0.17

1) At the time of packing 2) By IR Moisture Balance 3) IS: 7589-1974 (A-B) 4) IS: 12076-1986 (A-2) 5) IS: 2850-1983 (A-5.1)

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### APPLICATIONS:

- Rubber & EVA sheets as an internal lubricant and for dusting.
- For coating on chemicals etc. for free-flow and moisture resistance.
- For PVC, HDPE and other polymers/plastics.
- Speciality polymer composites.

### BENEFITS OF USING ZINC STEARATE-GRANUAL AS COMPARISON WITH ZINC STEARATE-POWDER :

- Being Granual form mixing in the needer with EVA or Rubber is Faster than Powder
- No Air Loss – Cost saving upto 7-8%
- It is High Heat Fusion Product so Better Internal Lubrication.



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# CHINA CLAY

PROPERTIES	UNIT	CHINACLAY 10	CHINACLAY 20
PARTICLE SIZE			
D-50	µm	3.0 + 1.0	4.0 + 1.0
D-97	µm	12.0 + 2.0	20.0 + 2.0
DRY WHITENESS	%	Min. 88	Min. 88
OIL ABSORPTION	gm / 100gm	38.0 + 2.0	35.0 + 2.0
WATER DEMAND	ml / 100gm	42.0 + 1.0	40.0 + 1.0
HEGMAN FINISH		5	5
VOLATILE MATTER	%	0.3	0.3
BULK DENSITY	Gm/ltr	425 + 50	475 + 50
pH of SAT. SOLUTION		8.0 – 9.0	8.0 – 9.0
SPECIFIC GRAVITY		2.6	2.6
LOSS ON IGNITION	%	14.6	14.6

## DISTINCT FEATURES:

- Increases Opacity
- Improves Flow Characteristics
- Better Hiding Power
- Enhance Shelf Stability





# CALCIUM CARBONATE PRECIPITATED

Precipitated Series is high in purity and is ultra fine uncoated calcium carbonate specially designed & developed to meet highest standard for polymer Industry's requirement of CaCO<sub>3</sub>.

PROPERTIES	UNIT	DF (Precipitated)	SD (Precipitated)
PHYSICAL FORM		White Powder	White Powder
MOISTURE % (MAX)	%	0.42	0.42
FINENESS RESIDUE % (by wt. on 50 micron is uncoated)	%	99.90	99.90
SPECIFIC GRAVITY		2.65 – 2.75	2.65 – 2.75
BULK DENSITY (gm/ml)	Gm/ ltr	0.44 – 0.43	0.44 – 0.43
WATER PROOFING (%)	%	–	–
pH	Gm/ltr	9.50	9.50
Mgo (%)		Max.0.5	Max.0.5
SOLUTION IN 5 NHcl	%	–	–
CaCO <sub>3</sub> %	%	98.0 + 1.0	98.0 + 1.0

## DISTINCT FEATURES:

- Controlled Particle Size Distribution
- High Purity Raw Material
- Excellent Dispersion
- Better Processibility

## DISTINCT FEATURES:

- PVC Compounds
- Rigid PVC Pipe
- High Loading Antifab / Filler Masterbatch
- White / Colour Masterbatch
- EVA injected Footwear
- Rubber Compounding



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# CALCIUM CARBONATE ACTIVATED

Calcium Carbonate Activated Series is high in purity and is ultra fine. It is developed from purest & softest raw material to fulfill filler loading in plastic, polymer and rubber requirement.

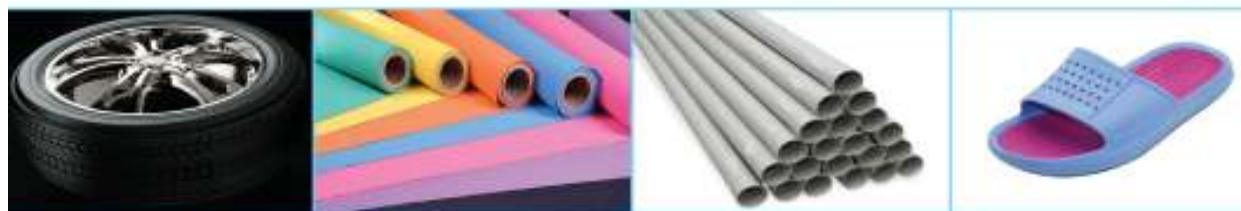
PROPERTIES	UNIT	S1 (ACTIVATED)	S2 (ACTIVATED)
PHYSICAL FORM		White Powder	White Powder
MOISTURE % (MAX)	%	0.20	0.20
FINENESS RESIDUE % (by wt. on 50 micron is uncoated)	%	0.1 (Max.)	0.1 (Max.)
SPECIFIC GRAVITY		2.70 to 2.80	2.70 to 2.80
STEARIC COATING %		2.5 to 3.0	1.5 to 2.0
PHASE (nature of particle)		Calcitic	Calcitic
BULK DENSITY (gm/ml)	Gm/ ltr	0.70 – 0.80	0.70 – 0.80
WATER PROOFING (%)	%	More than 99.0	More than 99.0
pH	Gm/ltr	9.0 to 9.9	9.0 to 9.9
Mgo (%)		Max.0.5	Max.0.5
SOLUTION IN 5 NHcl	%	–	–
CaCO <sub>3</sub> %	%	Min. 99.0	Min. 99.0-

## DISTINCT FEATURES:

- Controlled Particle Size Distribution
- High Purity Raw Material
- Excellent Dispersion
- Better Processibility

## DISTINCT FEATURES:

- High Loading Antifab/ Filler Masterbatch
- White / Colour Masterbatch
- EVA, LDPE Compound
- Rigid PVC Pipe
- DMC, SMC, Pultrusion
- PVC Profile
- PVC Cable Compound
- Footwear
- Rubber Auto Parts



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**IMPORTER | MANUFACTURER | TRADER**





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