

Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

VCIGUARD MICROBLEND V75

Micronized Additive Blend for VCI Masterbatches, Papers, and Films

Product Description

VCIGUARD MICROBLEND V75 is a micronized multifunctional powder blend designed for integration into VCI films, masterbatches, and papers. It combines active and passive corrosion protection using long-lasting and fast-acting inhibitors. Micronized carriers such as talc and mica ensure improved dispersion, vapor retention, and printability in polymer or paper matrices.

Micronized Ingredient Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Flow enhancer, anti-caking carrier	25.00
Micronized Mica	12001-26-2	Barrier layer, vapor retention	20.00
Sodium Benzoate	532-32-1	Base VCI for ferrous metals	20.00
Dicyclohexylammonium Benzoate	53540-12-8	Long-lasting corrosion inhibitor (Fe, Al, Zn)	12.00
Morpholinium Benzoate	31138-65-5	Fast-acting VCI for copper, zinc, steel	8.00
Hydrophobic Fumed Silica (R972)	67762-90-7	Moisture barrier, anti-caking	1.00
Glycerol Monostearate (GMS 90%)	31566-31-1	Film-forming aid, print coating compatibility	4.00
TOTAL	–	–	100.00

Physical Properties

Property	Value
Appearance	Fine off-white to pale tan powder
D50 Particle Size	< 10 µm
Bulk Density	0.35–0.50 g/cm ³
Moisture Content	< 0.5%
Compatibility	LDPE, LLDPE, HDPE, EVA, Paper, Solvent Binders
Shelf Life	24 months in sealed condition

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Recommended Dosage

Use at 1.0% to 5.0% w/w in polymer or coating formulations. For film and paper conversion, 20–40 GSM coating weight is suggested depending on application and metal type.

Storage and Handling

Store in a cool, dry place, sealed in original packaging. Handle under dry room conditions with PPE and dust control. Avoid prolonged exposure to air or humidity. Ensure compatibility with other acidic or basic VCI additives before blending.

Packing Instructions

Packaging Format	Details
Standard Bag	10 kg PE-lined Kraft Paper Bag
Optional	5 kg HDPE double-sealed bags
Palletization	500 kg per pallet (50 bags x 10 kg)
labelling	Product Name, Batch No, Net Weight, MFG Date, Expiry Date
Storage Condition	≤ 30°C, RH < 60%, store in dry ventilated area

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