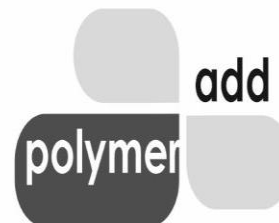


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

INKTECH MICROBLEND I45

Micronized Additive Blend for Ink Systems

Product Description

INKTECH MICROBLEND I45 is a specialized micronized additive blend designed for high-performance ink formulations, offering optimal rheology control, gloss management, slip enhancement, and anti-settling behavior. It is suitable for solvent-based, water-based, and UV ink systems including gravure, flexographic, and offset applications.

Micronized Ingredient Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Micronized Talc	14807-96-6	Rheology control, anti-settling	35.00
Micronized Mica	12001-26-2	Surface smoothness, gloss control	30.00
Amorphous Silica (Synthetic)	7631-86-9	Anti-settling, viscosity control	3.00
Zirconium Silicate (Fine)	10101-52-7	Abrasion resistance	4.00
Barium Sulfate (Fine Grade)	7727-43-7	Whiteness, levelling agent	10.00
Micronized Polyethylene Wax	9002-88-4	Slip, rub resistance	3.00
Hydrophobic Fumed Silica	68909-20-6	Flow aid, long-term storage stability	2.00
TOTAL			100.00

Physical Properties

Property	Value
Appearance	Fine off-white micronized powder
D50 Particle Size	< 8 μm
Oil Absorption	50–70 g/100g (depends on ink system)
Bulk Density	0.30–0.50 g/cm ³
Moisture Content	< 0.5%
Shelf Life	24 months from date of manufacture
Ink Compatibility	Gravure, Flexo, Offset, UV-curable

Recommended Dosage

Use at 1.0% to 5.0% w/w of total ink formulation. Pre-dispersion or pre-grinding is recommended for optimal performance.

Storage and Handling

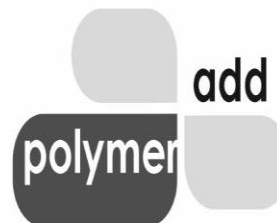
Store in a cool, dry area away from moisture. Ensure the packaging is sealed when not in use. Dust control systems are recommended during blending. Avoid contact with water or humid conditions.

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Packing Instructions

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

This preblend is offered as a dry additive system designed for technical use in polymer processing. The user is responsible for determining the appropriate dosage, processing parameters, and compatibility with their specific polymer and equipment. Polymer Add Thailand shall not be liable for any consequential or incidental damages arising from incorrect use or unverified end-application performance

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