SunTechem

SunMox® C

Carbon Blacks



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SunMox® C



SunMox® Black C is portfolio of carbon blacks widely used in coatings and printing inks due to their unique combination of optical, rheological, and functional properties. Depending on particle size, structure, and surface size, carbon blacks offer a range of properties that are critical for modern coating and ink formulations.

In coatings, carbon blacks are used to achieve jetness, opacity, and UV protection. Fine-particle, high-surface-area grades provide intense blackness and high tinting strength. Larger-particle, low-structure grades are preferred where opacity, low viscosity, and easy dispersion are required. Carbon blacks also contribute to weathering resistance, helping protect substrates from UV degradation.

In **printing inks**, carbon blacks serve as the primary black pigment for flexographic, gravure, offset, and inkjet systems. Their controlled particle size distribution ensures excellent print density, sharpness, and optical density. High-color gas blacks are used for premium inks requiring maximum jetness, while furnace blacks are selected for general-purpose printing applications.

Powder forms

Product	Carbon black type	BET surface area (m^2/g)	Particle size (nm)	Structure	Jetness	Notes
SunMox Black C 70	Furnace black	~30	~70–80	Medium	Low	Low tinting strength, easy dispersion
SunMox Black C 3026	Furnace black	~30–35	~70–80	Medium	Low	Low-color black, large particle size
SunMox Black C 3017	Furnace black	~80–100	~30–40	Medium	Medium	Higher tinting strength
SunMox Black C 3018	Furnace black	~120	~20–25	Medium–High	High	Good jetness for coatings and inks
SunMox Black C 3211	Gas Black	~120	~20–25	High	Very high	High-jetness gas, fine particle size

Liquid preparations

Product	Type of preparation	Carbon black content	Dispersing agent	Aplication
SunMox Black C 7 liq.	Waterborne	40 %	Cationic	Use for water-based paints, provides very good color properties
SunMox Black C S liq.	Waterborne	38 %	Anionic	Intended primarily for dyeing paper both on the surface and in the mass
SunMox Black C 401	Solventborne (linseed oil, white spirit)	20 %	–	Use for solvent-based varnishes and paints, especially for wood stain provides high transparency

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