

47400 Spinel Black

Color Index: Pigment Black 26, C.I. 77494
Manganese ferrite black spinel (Fe,Mn)(Fe,Mn)₂O₄
CAS No.: 68186-94-7
EINECS No.: 269-056-3

Spinel black belongs to the copper-manganese-iron-system of spinels.

This pigment is characterized by an unusually deep black appearance.

While other pigments remit at least some part of the light spectrum and appear more or less colored, spinel black remits no more than 1.5% of incoming light at any point of the spectrum. No other pigment achieves this kind of optical blackness. Its good hiding power also gives this pigment a high yield.

Since spinel black is practically insoluble, handling requires the usual precautions against dust inhalation and working hygiene.

Description:

Spinel Black is a chrome-free black with an excellent hiding power. It fits for Pantone Process Black C. It will be predominantly used in technical applications. The pigment has good chemical resistance, outdoor durability, light fastness, heat stability, is non-bleeding and non-migratory. It is a pigment suggested for engineering resins. Furthermore, it is particularly suitable for paints and coatings including general industry, coil and extrusion coatings. This pigment causes no warpage in injection-moulded or extruded parts. Its good fastness ratings makes the pigment expedient for plastics resistant to both weathering and heat, its outstanding color strength makes it especially suitable for shading. Another field of application are architectural finishes, both water- and solvent-based.

Physical Properties:

Specific gravity:	4.5 g/cm ³	Method
Oil absorption:	33 g/100 g	DIN 66137
Mean particle size:	1.0 µm	ASTM D-281
Specific surface:	32.7 m ² /g	ISO 13320-1
pH:	7 – 8	DIN 9277
Heat Fastness:	> 500°C	ISO 787-9
Light Fastness:	8	NCF-33
Weather Fastness:	5	ISO 105-B01
		DIN EN 201205-A02

Product Specification:

	Tint 1:4	
DL*	± 1.0	
Da*	± 0.8	
Db*	± 0.8	
DE*	± 1.0	
Tinting strength	± 10 %	
Sieve residue (325 mesh / 45 µm)	< 0.1 %	ASTM D-185
Moisture:	< 0.5 %	ASTM D-280