



The Shepherd Color Company  
We Brighten Lives

# TECHNICAL DATA SHEET

TDS #254  
Revision 4  
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## BLACK 10K927

C.I. Pigment Black 27  
CAS # 68186-97-0\*

**DESCRIPTION:** A dark black powder produced by solid-state reactions at high temperatures. This pigment has good UV and visible opacity, is chemically inert, heat resistant, and stable to ultraviolet light. It is non-bleeding and non-migratory. It has exceptional durability and hiding power, and is generally used in applications where resistance to heat, light, and weather are needed. Typical applications (non inclusive) are most ceramic glazes and body stains.

**COMPOSITION:** Cobalt, Iron and Chromium

Physical/Chemical Property	Typical Value	Units	Test Method+
Specific Gravity	5.2	n/a	SCTM 312
Loose Packing Density	5.8	lbs./gal	SCTM 194
	0.7	kg/L	
Surface Area (BET)	1.9	m <sup>2</sup> /g	SCTM 153
Percent Moisture	0.2	wt. %	SCTM 248
Mean Particle Size	2.1	microns	SCTM 348
Conductivity	146	μS/cm	SCTM 142
Oil Absorption	11	parts oil/100 parts pigment	SCTM134
pH	8.6	n/a	SCTM 101
Residue 325 Mesh	0.01	wt. %	SCTM 135
Heat Stability	2200	°F	Observed
	1200	°C	

+SCTM refers to Shepherd Color Testing Method

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