



The Shepherd Color Company
We Brighten Lives

TECHNICAL DATA SHEET

TDS #431
Revision 0
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Black 10G903

C.I. Pigment Brown 29
CAS # 12737-27-8*

DESCRIPTION: A black powder produced by high temperature calcination. This pigment is IR reflective, has good UV and visible opacity, high infrared reflection, is chemically inert, heat resistant, and stable to ultraviolet light. It is non-bleeding and non-migratory. It has low heat build-up and has exceptional durability and hiding power, and is generally used in applications where resistance to heat, light, and weather are needed. It is compatible with most resin systems and polymers, and is non-warping. Typical applications (non inclusive) are liquid and powder coatings, inks, dispersions, plastics, and other applications where equivalent pigment chemistry is used.

COMPOSITION: Iron and Chromium

Physical/Chemical Property	Typical Value	Units	Test Method+
Specific Gravity	5.3	n/a	SCTM 312
Loose Packing Density	5.8 0.7	lbs./gal kg/L	SCTM 194
Surface Area (BET)	2.6	m ² /g	SCTM 153
Percent Moisture	0.2	wt. %	SCTM 248
Mean Particle Size	1.6	microns	SCTM 348
Conductivity	115	μS/cm	SCTM 142
Oil Absorption	13	parts oil/100 parts pigment	SCTM134
pH	5.3	n/a	SCTM 101
Residue 325 Mesh	0.05	wt. %	SCTM 135
Heat Stability	1,500 800	°F °C	Observed

+SCTM refers to Shepherd Color Testing Method

Issued by: Brian Schwer – Technical Manager

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