



The Shepherd Color Company  
We Brighten Lives

# TECHNICAL DATA SHEET

TDS #316  
Revision 3  
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## BROWN 10C873

C.I. Pigment Yellow 164  
CAS # 68412-38-4\*

**DESCRIPTION:\*** A dark brown powder produced by high temperature calcination. This pigment 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 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, and other applications where equivalent pigment chemistry is used.

**COMPOSITION:** Manganese, Antimony and Titanium

Physical/Chemical Property	Typical Value	Units	Test Method+
Specific Gravity	4.7	n/a	SCTM 312
Loose Packing Density	5.0	lbs./gal	SCTM 194
	0.60	kg/L	
Surface Area (BET)	4.7	m <sup>2</sup> /g	SCTM 153
Percent Moisture	0.3	wt. %	SCTM 248
Mean Particle Size	0.9	microns	SCTM 348
Conductivity	40	μS/cm	SCTM 142
Oil Absorption	14	parts oil/100 parts pigment	SCTM134
pH	5.6	n/a	SCTM 101
Residue 325 Mesh	0.02	wt. %	SCTM 135
Heat Stability	1500	°F	Observed
	800	°C	

+SCTM refers to Shepherd Color Testing Method

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