



# TECHNICAL DATA SHEET

## BROWN 10P850

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

**DESCRIPTION:** A medium brown powder produced by high temperature calcination. 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. It is compatible with most resin systems and polymers, and is non-warping. Typical applications (non inclusive) are plastics and other applications where equivalent pigment chemistry is used.

**COMPOSITION:** Manganese, Antimony and Titanium

Physical/Chemical Property	Typical Value	Units	Test Method+
Specific Gravity	4.8	n/a	SCTM 312
Loose Packing Density	5.0	lbs./gal	SCTM 194
	0.60	kg/L	
Surface Area (BET)	5.7	m <sup>2</sup> /g	SCTM 153
Percent Moisture	0.2	wt. %	SCTM 248
Mean Particle Size	0.9	microns	SCTM 348
Conductivity	38	μS/cm	SCTM 142
Oil Absorption	13	parts oil/100 parts pigment	SCTM134
pH	6.2	n/a	SCTM 101
Residue 325 Mesh	0.01	wt. %	SCTM 135
Heat Stability	1500	°F	Observed
	800	°C	

+SCTM refers to Shepherd Color Testing Method

Issued by: Brian Schwer-Technical Manager Issue Date: November 21, 2013

This document is not subject to the requirements of the Shepherd Color internal control procedure. This information provided hereon is based on tests believed to be reliable. However, this data is not guaranteed and no warranty, either expressed or implied is made concerning the use of this information or the use of the product described, whether or not known to The Shepherd Color Company.