



**TECHENICAL DATA SHEET FOR PIGMENT YELLOW - 164**

**1.0 GENERAL INFORMATION:**

- |                         |   |   |
|-------------------------|---|---|
| 1.1 Identity            | : | Manganese Antimony Titanium Buff Rutile |
| 1.2 CAS Number          | : | 68412-38-4                              |
| 1.3 Colour Index Number | : | Pigment Yellow 164                      |

**2.0 COLOUR PROPERTIES:**

(Pigment yellow reduced with its weight 1:1 of Rutile Titanium Dioxide, drawn down and compared with its batch standard in CIE Lab Scale)

- |                       |        |   |                |
|-----------------------|--------|---|----------------|
| 2.1 Tinting Strength  | (In %) | : | 100 ± 5.00     |
| 2.2 Colour Difference | DE *   | : | 1.00 Unit Max. |
|                       | DL*    | : | ± 0.70         |
|                       | DA*    | : | ± 0.70         |
|                       | DB*    | : | ± 0.70         |

**3.0 OTHER PHYSICAL AND CHEMICAL PROPERTIES:**

- |   |   |                      |
|---|---|----------------------|
| 3.1 Appearance                            | : | Dark Brown Powder    |
| 3.2 Apparent Density (g /cc)              | : | 0.70 to 1.0          |
| 3.3 Specific gravity                      | : | 4.35 – 5.0 (Approx.) |
| 3.4 Moisture Content at 105° C            | : | 0.5% Max.            |
| 3.5 Oil Absorption (% by wt.)             | : | 20 ± 3.0             |
| 3.6 Median Particle Diameter              | : | 2.00 Microns Max.    |
| 3.7 Residue on 45-micron sieve (% by wt.) | : | 0.1 Max.             |
| 3.8 pH of 1% solution                     | : | 6.0 – 9.0            |

**4.0 COLOUR FASTNESS PROPERTIES:**

- |                                    |   |                   |
|------------------------------------|---|-------------------|
| 4.1 Heat Stability° C              | : | 800               |
| 4.2 Light (Day light & Xenon lamp) | : | Very good         |
| In Mass Tone                       | : | 8/8 on wool scale |
| In-Reduced Tone                    | : | 8/8 on wool scale |
| 4.3 In Acids                       | : | Good              |
| 4.4 In Alkalis                     | : | Good              |
| 4.5 In Solvents                    | : | Good              |

**5.0 TOXICITY:**

Least toxic and a safe pigment for industrial applications. It is ecologically non-hazardous and does not create any skin or eye irritation.

***Note:*** The information provided above is for general guidelines only and subject to change without notice. Ultramarine & Pigments Limited assumes no responsibility and users are advised to test the products for suitability prior to use on a commercial or production scale.