

ULTRAMARINE BLUE TECHNICAL DATA SHEET UPL AR-4

GENERAL INFORMATION:

1. IDENTITY : Sodium Aluminium Sulpho Silicate

2. CAS NUMBER : 57455-37-5

3. COLOUR INDEX NUMBER : Pigment Blue 29 : 77007

COLOUR PROPERTIES:

(Blue reduced with five times its weight of Rutile Titanium Dioxide, drawn down and compared with its Batch Standard in CIELab Scale)

1. TINTING STRENGTH (IN %) : 100 ± 5.00

2. COLOUR DIFFERENCE DE* : 1.00 Unit Maximum

 DL^* : ± 0.50 Unit DA^* : ± 0.50 Unit DB^* : ± 0.50 Unit

OTHER PHYSICAL AND CHEMICAL PROPERTIES:

1. APPEARANCE : Blue Powder 2. APPARENT DENSITY (g/cc) : 0.50 to 0.85

3. SPECIFIC GRAVITY : 2.35 (Approximately)
4. MOISTURE CONTENT AT 105⊡C : 2.0% Maximum
5. WATER SOLUBLE MATTER : 2.0% Maximum
6. pH (ACID RESISTIVITTY) : 4.0 − 5.0 pH
7. OIL ABSORPTION (% BY WT) : 34.00 to 37.00

8. MEDIAN PARTICLE DIAMETER : 2.50 Microns maximum

9. RESIDUE ON 45 MICRONS SIEVE (% BY WT) : 0.20 Maximum

COLOUR FASTNESS PROPERTIES:

1. HEAT STABILITY : Stable at 350°C for 5 minutes

2. LIGHT (DAY LIGHT AND XENON LAMP) : Very good

IN MASS TONE : 7/8 on woolscale IN REDUCED TONE : 7/8 on woolscale : 7/8 on woolscale : Stable at pH 4.0 – 5.0

4. IN ALKALIS : Good

TOXICITY:

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

USAGE IN COSMETICS:

Conforms to regulations in most countries in the world.

<u>Note:</u> 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.