

TECHNICAL DATASHEET

Ultramarine Blue –UMB50

IDENTITY

Chemical: Sodium Alumino Sulphosilicate

C.A.S. Nos. : (i) 57455-37-5; C.I. Pigment Blue 29 (9CI)

(ii) 101357-30-6; Silicic acid aluminium sodium salt, sulphurised

EINECS No. (Europe) 3099283

TSCA (USA))

AIECS (Australia) The C.A.S. Number is used

DSL (Canada)

MITI No. (Japan) 1-22

SEPA (China) FC020409 017

Colour Index No. Pigment Blue 29: 77007

DESCRIPTION

UMB50 is a medium tinting strength, mid shade Ultramarine blue. It is heatfast, lightfast, easy to disperse and approved worldwide for use in different applications across various industries.

UMB50 is widely used alone to obtain a bright, transparent shade of blue, or in combination with other pigments such as titanium dioxide, with which it gives an attractive pastel shade.

UMB50 is intended as a general purpose pigment with application in ink, soap, cosmetics and many other industries, particularly those in which a Medium tinting strength is required. UMB50 can also be used in rubber but for optimum performance grades from the R.S. Pigment's plastics specific range, such as PlastBlu Premier, are recommended.

SPECIFICATION:

Property	Minimum		Maximum
Colour 1:4 reduction in high impact polystyrene	DE		1.00
	Strength	95%	105%
Matter volatile at 105 °C			2.00%
Water soluble matter			1.00%
Sieve residue (45 µm)			0.20%
Free sulphur			0.65%

Revision 1 – November 2005

TYPICAL DATA

Specific gravity	2.31
Tap density (g/cm ³)	0.70
Oil absorption (%)	38.5
Mean particle size (µm)	4.50
Cube for shipping (m ³)	1.69

FASTNESS PROPERTIES

Heat	Less than 250 ⁰ C
Light (xenon lamp and daylight)	Mass tone Excellent; 7 to 8 (BS1006 blue woolscale) Reduced shade Excellent; 7 to 8 (BS1006 blue woolscale)
Acids	Less resistance to transient exposure
Alkalis	Good

HEALTH AND SAFETY

Ultramarine is one of the safest pigments available to industry.

Acute oral toxicity (LD 50 rats)	- greater than 10g/kg
Skin irritation	- non irritant, non sensitizing
Eye irritation	- none
Ecology	- non hazardous

Consult Material Safety Datasheet before use

STORAGE, STABILITY AND HANDLING

Shelf life	- indefinite if stored under recommended conditions
Transport and storage	- do not store near acids
Incompatible substances	- acids
Hazardous decomposition products	- hydrogen sulphide released by acid contact
Protective and special measures	- none: avoid excessive dust
Action after spillage	- clean quickly; avoids flushing large quantities. Dispose according to local regulations

REGULATIONS

Conforms to the following regulations or codes of practice.

Food Contact Plastics

EC - C.E. Resolution AP (89)1

Approved under the French positive list (Circulaire 176 du 22.12.1959)

U.S.A. - CFR 21, Part 178.3297

Cosmetics

EC - Directive 76/768/EEC and amendments

U.S.A. - CFR 21, Part 73.2725

Toys

EC - European Standard EN71: Part 3: 1994

U.S.A. - Federal Register 42 (170) 44193-44201 (1977)

Other Countries - To the best of our knowledge Ultramarine pigments are approved for food contact, cosmetics and toy use throughout the world – for more information see relevant publications on “Health and Safety”

The technical data or recommendations are given to the best of our knowledge but carry no guarantee or acceptance of responsibility. It is the duty of the user to assess the suitability of our products within their own formulation. Standard specifications, although current at the time of publication, are subject to change without prior notice.