

CERTIFICATE OF ANALYSIS

SPECIFICATIONS

Type	Chlorinated Copper Phthalocyanine
Formula	14 to 16 Chlorine atoms per 1 mole C ₃₂ N ₈ Cl ₁₆ Cu
Molecular Weight	1127
Colour Index No.	74260
C.I.Generic Name	Pigment Green 7
Cas No.	1328-53-6
pH	Nuetral (7-7.5)
Moisture Content	< 1%
Bulk Density	0.45 - 0.5 gm / cc
Particle Size	<300 mesh
P.C.B Content	<5 ppm
Heavy Metal Content	Within permissible limits
Oil Absorbption	30-35 gms oil / 100 gms of pigment
Heat Stability	Stable upto 250°C

BLEEDING IN

Water	No
10% Caustic Soda	No
10% Hydrochloride	No
Acetone	No
Ethyl Alcohol	No
Ethyl Acetate	No
Xylene	No
Methyl Ethyl Ketone	No
Linseed Oil	No
Paraffin Wax	No
5% Soap Solution	No

DURABILITY

Full Strength	Excellent
Light & Weather	Excellent
Interior in Tint	Excellent
Exterior in Tint	Excellent

USES AND APPLICATIONS

Pigment Green 7 is used as raw material for

PAINT, INK, TEXTILE EMULSIONS and as colourant for **PLASTICS RUBBER SOAP, etc.**

PAINT : Pigment Green 7 has wide applications in all types of paints, exterior paints and enamels, lacquers, emulsion paints of various types, automotive finishes and baking enamels. It has excellent fastness to exterior exposure either full strength or as pastel shades. It is a valuable colour for preparing "Universal tinting Pastes". The soft texture of Phthalocyanine pigment renders its applications in paints as very facile.

PRINTING INK : Pigment Green 7 is excellent in soap resistance, detergent resistance, acid resistance and alkali resistance. It is highly suitable in use with organic solvents and has high light fastness properties. It is used in manufacturing all kinds of printing inks such as publication inks, metal lithography inks, flexographic and gravure inks, lithography inks, ink for food wrappers and soap wrappers, etc..

TEXTILE : Textile printing inks are well known for producing artistic designs on textiles. Phthalocyanine finds a good contribution in this field. Phthalocyanine printing emulsions with appropriate binders are important applications of this group of pigments. Spindyeing of PVC fibres, viscose, cuproammonium cellulose nylon, Perlon L and Risan are other important applications.

PLASTICS : For plastics the pigment must be very fine particle size and ability to disperse evenly in the material. All these are achieved in case of Phthalocyanine pigment.

RUBBER : Rubber goods are increasingly being coloured. The presence or absence of copper in Phthalocyanine has no effect on the ageing of Rubber.

MISCELLANEOUS COLOURANT APPLICATIONS : Pigment Green 7 is used extensively for colouring roofing granules because of its high light fastness under exposed conditions. It can also be used for colouring cement for exterior painting of buildings.