



Sino-American Pigment Systems, Inc.

QUALITY RAW MATERIALS ■ ENVIRONMENTAL TECHNOLOGY

White Cloud⁷ SAFE YELLOW 83 - CI - PRODUCT DESCRIPTION


Description: Non-Toxic, Lead-Free, Low-Dusting, organic-inorganic hybrid Yellow Pigment. Safe Yellow 83 is formed by a proprietary process of encapsulating a colored Inorganic Pigment with Diarylide Yellow (AADMC) PY-83 shell. Preserving the excellent chemical stability, abrasion resistance, and thermostability of the inorganic pigment, while providing the brightness, lustrous color and tinting strength of the organic pigment, it possess excellent hide, disk dispersability, good tint strength, and low resin demand, to offer formulators bright yellow hues of high Chroma. Patented.

Applications: The **low oil absorption** of Safe Yellow allows **high solids formulations** with lower resin demands resulting in **lower VOC=s**. The **ease of dispersion** facilitates Safe Yellow=s incorporation into tint and masstone formulations to achieve dispersion process enhancements, **cost reductions**, and **improved film performance** in Safety Traffic Coatings, Interior and Exterior Latex, Alkyd and Acrylic coatings, as well as Flexographic, Gravure and Lithographic Thermoset or UV cured printing ink formulations. Applications also include medium temperature rubber and thermoplastic extrusion formulations. Because Safe Yellow is a single pigment system, the observed color value of Safe Yellow will remain yellow under all illumination conditions significantly reducing metamer shift.

Packaging: 25 KG paper bags. Palletized, Shrink Wrapped. Load secured in container with Air Bags for stability.

TYPICAL SPECIFICATIONS

Monoarylide Pigment 83 Encapsulating Titanated Lithopone Core	Product Code	366
Physical Form		Dry Powder
Color Index Number	C.I. #	21108
Tint Strength – ASTM D4838	Category	Good
Opacity – ASTM E 1392	Category	Good
Light Fastness - ASTM D 4302	Class	II-Very Good
Bleed Fastness	Category 1 - 5 : Considerable to None: British Standard 1006	
Water		5
VM&P Naphtha	Aliphatic	5
Acid	2% HCL	5
Alkali	1% NaOH	5
Mineral Spirits	Aliphatic & Aromatic Mixture	4
Dibutyl Phthalate	Nitrocellulose Plasticizer	3
Ethylene Glycol	Alcohol	3
Ethyl Acetate	Acetic Ester	3
Xylene	Aromatics	3
Methyl Ethyl Ketone	Keytones	3
Heat Stability: 10 Min. to Organic Shell color change	°F / °C	390 / 200
Heavy Metals [Pb Cr Cd Hg Sb As Se] - Passes EN71 & ISO 3856/4	Maximum	25 ppm
Water Solubles Matter - ASTM D 1208	% Maximum	0.5
Volatiles at 105°C - ASTM D 1208	% Maximum	0.5
Density in grams/cc @ 25°C - He Pycnometer	Median	2.0 - 2.8
Bulking Density	Pounds per Gallon	20.85 – 23.35
Particle Diameter in um - PIDS Laser Diffraction	Median	0.35 – 0.8
325 Mesh Residue [44 micron]	% Maximum	0.1
Oil Absorption in Lbs/100 Lbs - ASTM D 281	Nominal	15
Hegman Fineness Grind - ASTM D 1210	Median	6.5
pH	Nominal	6.0 – 7.0

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