



Sino-American Pigment Systems, Inc.

QUALITY RAW MATERIALS ■ ENVIRONMENTAL TECHNOLOGY

White Cloud™ - 30 LITHOPONE - PRODUCT DESCRIPTION

- Description:** Non-Toxic White Opacifying Pigment surpassing ISO 473-77. Optical performance, fineness and dispersibility are advanced to new performance levels. Optical scatter, fineness and good dispersibility producing a co-crystalline particle with high light -scattering and refractive index. WC 30 offers 1/3 the opacity of TiO_2 . **Wide resin compatibility. Ultra low oil absorption** and specific surface area result in low binder demand facilitating low VOC, high solids formulations. Its soft texture and low Mohs hardness provide superior abrasion resistance and substrate adhesion by improving film tightness.. Satisfies FDA requirements for Indirect Food Additive and Component of Coatings.
- Applications:** As an **opacifying pigment extender of TiO_2** in the formulation of high and medium grades of paint and coatings. Compatible in all water or solvent, UV, EB, and thermoset systems for paint, coatings, plastic and ink applications **from primers to finish coats**. Flooring and vinyl siding manufacturers value its **superior flow, high heat & acid resistance, light fastness, opacity and cost savings**. Its **low UV absorption** is the perfect complement to photoiniated cured resins for flat-lines and **flexographic inks**, while **electro-deposition systems** benefit from its low conductivity allowing higher applied electrical charges resulting in better atomization and wrap. Opacity, reinforcement, rapid dispersion and contributions to easier extruding, calendaring and spreading operations are valued **for plastics' and rubber**. Applicable in artists' colors; caulking compounds and putties; chalks and crayons; coated fabrics; **wallboard and cement sealers**.
- Packaging:** 25 KG paper bags or PE lined woven PP bags. Palletized and Shrink Wrapped. Load secured in container with Air Bags for stability. Customized bag is available per request.

TYPICAL SPECIFICATIONS

Total amount of Zinc Sulfide - EDXRF Analysis	% Minimum	30
Total amount of Barium Sulfate- EDXRF Analysis	% Approx	70
Volatile at 105°C - ASTM D 1208	% Maximum	0.25
Water Soluble Salts - ASTM D 1208	% Maximum	0.28
pH value of 5% aqueous extract solution - ASTM D 1208	Median	6.8
Bulking Density in Pounds per Gallon	Nominal	36
Density in grams/cc @ 25°C	Median	4.3
Particle Diameter Mass Distribution in microns - PIDS Laser Diffraction	Median	0.3
Hegman Fineness Grind - ASTM D 1210	Median	7.5
325 Mesh Residue [44 micron]	% Maximum	0.04
Oil Absorption in Lbs/100 Lbs - ASTM D 281 - Rub Out Method	Nominal	8.8
Specific Surface Area in square meters / gram – BET Analysis	Median	3.39
Heat Stability in °F/°C of ≥ 1) E CIE Lab Units Color Change within 10 Minute	Nominal	1832/1000
Hiding Power in square feet/lb as derived from Tinting Strength - ASTM D 332	Feet ² / Lb.	34.5
Refractive Index - Non-Polarized @ 550nm	Median	2.01
Mohs Hardness	Median	3
Scrub Resistance - Cycles to Failure on Flat Interior Vinyl	% Minimum	30
Dry Brightness - GE/TAPPI @ 2° Observer, C Illumination	% Minimum	96
Color - [Brilliant White with Blue-White Cast] CIE LAB @ 2° Observer, D ₆₅ Illumination		L*97.5

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■ 1620 Norvell Street ■ El Cerrito, CA 94530 – 2244 ■ USA ■ Telephone: 510 231 9189 ■ Facsimile: 510 231 9169 ■ www. Safepigment.com ■