

Product Data Sheet

SACHTOLITH® HD-S

SACHTOLITH® HD-S is a white pigment based on synthetic zinc sulfide obtained from highly purified solutions. The product is chemically resistant on the pH range between 4 and 12.

It has a refractive index of 2.37 (of ZnS), high brightness and neutral hue. Low absorption in the near UV range helps increase compatibility with optical brighteners than other inorganic white pigments. SACHTOLITH® HD-S is suitable for abrasion sensitive coating, ink, plastic, paper formulations and mechanical properties are retained in glass-fiber-reinforced plastics.

The Benefits of the Product Include:

- Retention of mechanical properties in glass-fiber-reinforced plastics
- Very good compatibility with optical brighteners
- Low abrasiveness (due to ZnS based low Mohs hardness of ca. 3) helps reduce cylinder and doctor blade wear
- UV cured systems can benefit from complete through-cure, good adhesion, reduced energy uptake and less photo initiator
- Low binder demand allows formulators to adjust the viscosity of the coating
- Relatively high thermal conductivity when used in polyolefins which can help protect polymers against thermal degradation

Typical Properties

ZnS content	Approx. 98%
Organic treatment	Present
Brightness L* (powder)	Approx. 97
Crystal size [µm]	Approx. 0.3
45 µm sieve residue [%]	≤0.004
pH	Approx. 7
Specific gravity [g/cm³]	Approx. 4.0
Specific surface area [m²/g]	Approx. 8
C.A.S No.	1314-98-3
Rel. scattering power (Reference pigment TiO ₂ = 100; PVC = 17%)	Approx. 56
Hardness (Mohs)	3

This data sheet includes the typical properties of this pigment. It is not a specification, although specifications are available.

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Safety, Health and Environment

As for all fine powders, the handling of titanium dioxide pigments can give rise to airborne dust. Good industrial hygiene practice should be observed so as to avoid the generation and subsequent inhalation of dust. For more information refer to our material safety data sheet.

Storage

Keep the product unstacked in dry and closed rooms at normal temperature and air humidity. To achieve best possible results, we recommend storage under the conditions stated above and use within 12 months from delivery.

Contact Details

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