

Milliken® Keyfine™ UFD Black

TECHNICAL DATA

Keyfine™ UFD Black is a hydrophilic surfactant based black pigment dispersion. The sub micron particle size makes it ideal for use in drawing inks, fiber-tip and roller ball pens, artist's watercolors, as well as high performance wood and concrete coatings. Other characteristics include:

D95 particle size 0.1 to 0.5 microns | Nonionic wetting and dispersing agents | Exceptional transparency and brilliance
Excellent miscibility in water based surfactant or resin systems | Low viscosity and binder free

Identification Information

CI Name	Pigment Black 7
Chemical Family	Carbon Black Pigment Dispersion

Product Specifications

PROPERTY	TOLERANCE
Strength	95.0% - 105.0%
Shade	Delta E 0 - 1.5 (CIE Lab)
Solids	39.0% - 43.0%
Weight Per Gallon	9.6 lbs - 10.0 lbs
pH	8.0 - 10.0
CIELAB (L*a*b*)	-1.0 - 1.0
Particle Size	0.1 - 0.5

Typical Properties

PROPERTY	DESCRIPTION
Physical Appearance	Black Opaque Liquid

NOTE: These typical values should not be interpreted as specifications.

Use & Care

Handling

- Stir product thoroughly before use, especially if container has not been used for any extended period of time.
- Slow speed stirring is recommended to prevent foam formation.
- Slowly add product to water based medium. If added too rapidly it may cause the pigment to flocculate.
- If cold, product should be allowed to warm gradually to room temperature before use.
- Always replace the container lid securely immediately after use to prevent evaporation of water and to reduce the risk of fungal and/or bacterial contamination from the atmosphere.

Dilution of aqueous pigment dispersion products

- Product may be diluted with water. However, it must be added slowly to the dispersion with constant stirring to avoid "pigment shock" or cause flocculation of the pigment.
- When storing diluted product, a biocide compatible with the end use should be added to prevent and contamination from the water based medium.
- Diluted product must be stored above freezing (0°C/32°F). Failure to do so may cause irreversible flocculation and breakdown of the product.
- Ideally, pH should be kept between 8.0 and 10.0 to maintain dispersion stability.

Storage

- Do not store below freezing (0°C/32°F).
- Always be sure container is closed securely with the original closure to prevent evaporation of water and protect from contamination.
- For long term storage, it is recommended products be stirred occasionally.
- If a diluted dispersion is to be stored for any length of time, the diluted dispersion should be stirred at regular intervals and thoroughly stirred immediately prior to use.

Please contact your Milliken representative for further product information including chemical registrations, food contact status, and other regulatory details.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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