



KEYSTONE
KEYSTONE ANILINE CORPORATION

DYES FOR INKS

Writing and Marker Inks / Inkjet

Changing the way you think about color





DYES FOR INKS Writing and Marker Inks / Inkjet

- **Keyacid powder dyes**
- **Keyacid/ Keyamine/ Keyreact liquid dyes**
- **Keyazine powder dyes**
- **Keyfast Spirit powder dyes**
- **Keystone R-O dyes**
- **Morfast™ dyes**

Keystone offers a very wide and complete range of dyes for use in all aspects of writing inks, markers, highlighters, and inkjet applications. Keystone dyes are made in both powder and liquid forms for both aqueous and solvent based systems.

A brief summary of various ink applications along with recommended Keystone dye groups is followed by a complete listing of the dyes.

INK APPLICATIONS AND RECOMMENDED KEYSTONE DYE GROUP

Application	Dye Group
Fiber Tip Pens (aqueous)	Keyacid powders Keyacid/ Keyamine/ Keyreact liquids Keyazine powders
Fiber Line Pens (aqueous)	Keyacid powders Keyacid/ Keyamine/ Keyreact liquids Keyazine powders
Roller Ball Pens	Keyacid powders Keyacid/ Keyamine/ Keyreact liquids Keystone R-O liquids
Overhead Projection Pens	Keyacid powders Keyacid/ Keyamine/ Keyreact liquids Keystone R-O liquids
Highlighter Markers	Keyacid powders Keyacid/ Keyamine/ Keyreact liquids
Felt Pen Markers (solvent)	Morfast™ liquids Keyfast Spirit powders
Inkjet (aqueous)	Keystone R-O liquids
Inkjet (solvent)	Morfast™ liquid Keyazine powders (alcohol systems only)



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KEYSTONE KEYACID POWDER DYES

Keyacid powder dyes are extremely high strength colorants soluble in water and glycols and can also be used in alcohol and glycol ether systems. Keyacid powder dyes have little or no standardizing salts added such as chlorides and sulfates, however these may be present in small quantities from the reaction process of the dye. For applications that require virtually salt free dye, Keystone R-O dyes should be considered.

Product Name / Code	Color*
Keyacid Chinoline Yellow Super 801-003-85	
Keyacid Pyranine 10G 406-007-60	
Keyacid Tartrazine W Super 801-023-71	
Keyacid Metanil Yellow Super 801-036-54	
Keyacid Orange Y 501-007-50	
Keyacid Eosine OJ Super 601-087-80	
Keyacid Brill Red XB Super 601-052-54	
Keyacid Violet 5BNS Super 701-017-60	
Keyacid Blue FG 201-009-50	
Keyacid Brilliant Green G 401-720-50	
Keyacid Nigrosine 02P Super 101-002-47	

KEYSTONE KEYACID, KEYAMINE AND KEYREACT LIQUID DYES

Keyacid, Keyamine and Keyreact Liquid dyes are exceptionally high strength, anionic, aqueous based liquid concentrates with generally very low salt contents.

Product Name / Code	Color*
Keyacid Uranine K Liquid 801-073-42	
Keyacid Metanil Yellow Liquid 801-036-43	
Keyacid Tartrazine W Liquid 801-023-33	
Keyamine Red 8BL Liquid 605-254-50	
Keyacid Brill Red XB Liquid 601-052-33	
Keyreact Red F3B Liquid 609-180-31	
Keyacid Orange Y Liquid 501-007-40	
Keyacid Blue FG Liquid 201-009-31	
Keyamine Turquoise FBL Liquid 205-199-48	
Keyamine Direct Black SP IJ 105-407-41	
Keyacid Nigrosine 2BP Liquid 101-002-31	













* The color shades illustrated within this technical bulletin are designed to give a general idea of the color characteristics of each dye, not a guarantee of how the dye will look in a particular formulation. Different viewing monitors and screen resolutions as well as the specific application may give a different variation of the actual color.



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KEYSTONE INKJET DYES FOR AQUEOUS FORMULATIONS

Keystone dyes for inkjet applications are highly refined, liquid dyes with exceptionally low salts content (chlorides and sulfates) for use in inkjet and other exceptionally salt critical applications.

Product Name / Code	Color*
Keyacid Tartrazine Liquid Supra 801-023-33	
Keyacid Tartrazine RO Liquid 801-023-22	
Keyamine Yellow GGN-IJ Liquid 805-107-44	
Keyreact Red F3B-RO Liquid 609-180-31	
Keyamine Blue FBL-RO-200% 205-199-72	
Keyamine Blue FBL-IJ Liq 205-199-45	
Keyacid Blue FG Liquid 201-009-00	
Keyamine Black SP-IJ Liquid 105-407-41	
Keyamine Black HF-IJ Liquid 105-413-43	
Keyacid Rhodamine XB-RO Liq 601-052-72	
Keyamine Violet BRW-IJ Liquid 705-400-42	
Keyjet Black CRD Liquid 110-407-72	

KEYSTONE KEYAZINE DYES

Keyazine dyes are cationic, exceptionally brilliant and high strength powders with no added salt diluent. Keyazine dyes are water soluble but for ink applications are most widely used in alcohol, glycol or glycol ether systems.

Product Name / Code	Color*
Keyazine Yellow DEA 803-037-52	
Keyazine Rhodamine B 500% 703-010-50	
Keyazine Crystal Violet 6B 703-003-50	
Keyazine Victoria Blue BO-ZF 203-007-50	
Keyazine Black DS-G 103-405-53	

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KEYSTONE KEYFAST SPIRIT DYES

Keyfast Spirit dyes are metal complex, solvent soluble dyes that can be used in a wide range of alcohol, ketone and aromatic hydrocarbon solvents.

FOR MORE INFORMATION PLEASE REFER TO THE
KEYFAST SPIRIT DYE SHADE CARD

Product Name / Code	Color*
Keyfast Spirit Yellow 4G 806-042-50	
Keyfast Spirit Yellow 2RLS 806-062-50	
Keyfast Spirit Yellow 2GN 806-082-50	
Keyfast Spirit Golden Yellow 3R 806-404-50	
Keyfast Spirit Orange RSE 506-062-50	
Keyfast Spirit Orange RLN 506-438-50	
Keyfast Spirit Red 2BK 606-008-50	
Keyfast Spirit Fire Red GLS 606-089-50	
Keyfast Spirit Fire Red G 606-119-50	
Keyfast Spirit Red KL 606-122-50	
Keyfast Spirit Red BL 606-122-52	
Keyfast Spirit Magenta RBS 606-127-50	

Product Name / Code	Color*
Keyfast Spirit Black X-51 106-027-50	
Keyfast Spirit Black KR 106-029-55	
Keyfast Spirit Black RBL 106-034-50	
Keyfast Spirit Blue 6G-SS 206-070-50	
Keyfast Spirit Royal Blue 206-403-50	
Keyfast Spirit Brown 2RM 306-401-50	
Keyfast Spirit Dark Brown 5R 306-402-51	
Keyfast Spirit Green GL 406-402-50	
Keyfast Spirit Green BL 406-406-50	

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KEYSTONE MORFAST™ LIQUID DYES

Morfast™ liquid dyes, produced by Sunbelt Corporation and exclusively distributed by Keystone Aniline, are single phase liquids produced in n-propanol and are exceptionally strong and easy to use. The n-propanol system is compatible with a wide range of solvent systems including alcohols, ketones and aromatic hydrocarbon systems.

FOR MORE INFORMATION PLEASE REFER TO
TECHNICAL BULLETIN 239

Product Name / Code	Color*
Morfast™ Yellow 101 806-412-50	
Morfast™ Yellow 102 806-161-42	
Morfast™ Red 101 606-422-50	
Morfast™ Red 102 606-423-50	
Morfast™ Red 105 606-431-50	
Morfast™ Red 106 606-434-50	
Morfast™ Violet 101 706-400-41	
Morfast™ Blue 100 206-413-50	

Product Name / Code	Color*
Morfast™ Blue 105 206-416-50	
Morfast™ Blue 106 206-419-42	
Morfast™ Green 101 406-410-42	
Morfast™ Brown 100 306-410-50	
Morfast™ Black 101 106-406-50	
Morfast™ Black 108 106-414-50	
Morfast™ Black 114 106-417-50	
Morfast™ Black DC 106-403-50	

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- In addition to supplying a complete and comprehensive line of colorants, at **Keystone Aniline Corporation** we are committed to providing our customers with the best technical information available. Call **1-800-522-4DYE** for samples or technical assistance.
- As a Keystone customer, you will have direct access to professionals who can answer technical questions and provide timely assistance.
- Please give us a call or visit our web site at **www.dyes.com**

Please feel free to contact us for samples of our dyes, technical specifications, or for formulating assistance.

DISCLAIMER: These data were obtained by testing according to our methods, with any necessary test deviations. Other test methods may give different results. Incoming evaluations, by the customer is therefore unconditionally recommended. The use and application of our colorants and information included is without any warranty, whether expressed or implied, verbal or written. No statements of recommendation contained in this product literature is to be construed as inducement to infringe on any relevant patent now or hereafter in existence.

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