

Diamond DSBROWN

Brown Disperse Dye Aqueous Dispersion

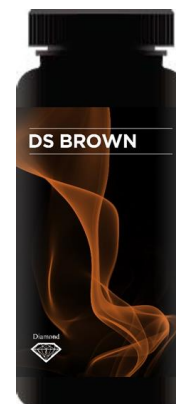
PERFORMANCE COATINGS

PRODUCT DESCRIPTION

Based on the high-quality inkjet grade dye DISPERSE BROWN 27, DSBROWN provides the basis for a world class intense black when blended with other products from the Diamond range. Having been stabilised utilising Diamond's dispersing technology, this tried and tested dispersion is also extremely stable and easy to formulate.

PHYSICAL CHARACTERISTICS*

Appearance	Brown liquid
C.I Reference	Disperse Brown 27
Dye solids content (%)	16 ±0.5
pH	6.0 - 8.0
Viscosity (mPas) at 25°C & 60 rpm	<10
Surface Tension at 25°C (mN/m)	34 – 44
Average mean particle size (nm)	<150
100% particles less than (nm)	<500
Conductivity at 25°C (µS)	<1500
Lightfastness (blue wool scale)	6



* Property values represent typical results only and are not to be considered specifications.

TYPICAL APPLICATIONS

	Highly recommended	Recommended	Not recommended
Sublimation inks for polyester	x		
Direct to fabric inks for polyester	x		
Direct to fabric inks for poly/cotton blends		x	
Direct to fabric inks for cotton			x

Starting point formulation for a sublimation ink for an Epson DX5 print head

DSBROWN	33%
Glycerol	15%
Triethylene glycol	8%
Surfynol 465	0.4%
Deionised water	43.6%

Notes for use

Always combine colourless components of ink formulation, and add them to the dispersion slowly, whilst stirring. Adding the dispersion to the ink vehicle could cause it to shock, rendering the product unusable.

SHELF LIFE/STORAGE

Store out of direct sunlight, and at temperatures between 5°C and 40°C. Do not allow the dispersion to freeze.

Recommended re-test date (RRD) is 1 year from the date of manufacture.

REGULATORY STATUS

Please see the product's current safety data sheet, SDS, for regulatory information. You can request an SDS at <https://www.diamonddispersions.com/contact/>

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Product safety information required for safe use is not included. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE FROM YOUR LUBRIZOL REPRESENTATIVE, OR DISTRIBUTOR.

Trademarks owned by The Lubrizol Corporation or its affiliates. © The Lubrizol Corporation 2020, All Rights Reserved.

