

LEE S. McDONALD, INC. est. 1976

THE SOURCE FOR THE PAPER ARTS

TITANIUM DIOXIDE

Titanium Dioxide (TiO₂) is used in paper as a white pigment and filler. It is highly light refractive and will increase the brightness of paper and coloring agents (with the exception of Pearlescent Pigments, which it will tend to mask). When used in the making of paper, it acts as an opacifier (makes the paper less transparent) . This property is especially valuable if the paper is thin, and is to be printed on both sides.

Procedure:

Because titanium dioxide is so bright, it can be used in smaller amounts than other brighteners, with less weakening of the paper. Start at 1-2% by weight of TiO₂ to dry fiber. This works out to be about 1/2-1 tsp./lb. (4.5-9 grams/lb) of dry fiber. This is a good beginning point. It can be added either at the end of the beating cycle or earlier in the process. A cationic retention aid such as our #292 will help retain the TiO₂ in the paper.

Safety Concerns:

Titanium Dioxide is considered a nuisance dust; therefore excessively dusty situations are to be avoided. A dust respirator is recommended. Spills should be swept up, or washed away with water. Store in a clean dry area.

Please read for your protection: Warranty information

All information and suggestions in this product handout is only the opinion of Lee S. McDonald, Inc. Since each artist has their own personal technique, and other numerous factors are involved, we cannot guarantee that the products will perform to each individuals' satisfaction. Testing of our products should be undertaken by the consumer to determine whether the product meets the intended needs. The user is responsible for final determination of suitability. Lee S. McDonald, Inc. makes no warranty of any kind, express or implied, other than that the material conforms to its applicable current Standard Specifications. The responsibility of Lee S. McDonald, Inc. for claims arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material or product. We cannot be liable for the occurrence of incidental or consequential damages.

***For more health information contact a physician or your local poison control center.**

Data safety sheets on this product are on file; a set of data safety sheets for the products we sell is available for \$20.00. For more information on art hazards and safety, consult the Center for Occupational Hazards, 5 Beekman St. New York, NY 10038.

If you have any questions about this titanium dioxide, please contact us.

MEASUREMENT TABLE

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LSM, INC. PO BOX 290264 CHARLESTOWN, MA 02129 TEL: 617 242-2505 FAX: 617 242-8825 MCPAPER@AOL.COM

Fluid Measures:

			1Tbsp	=	3 tsp.			
1 fl. oz	=	2 Tbsp						
8 fl.oz	=	1 cup						
16 oz.	=	2 cup	=	1 pint				
32 oz.	=	4 cup	=	2 pt.	=	1 quart		
128 oz	=	16 c	=	8 pt.	=	4 qt.	=	1gal.
1 milliliter	=	.0338 oz.						
15 ml.	=	1 tbs.						
29.57 ml.	=	1 oz.						
.03 liter	=	1 oz.						
1 liter	=	33.81 oz.	2.11 pt.	=	1.06 qt.=	.26 gal.		
.473 liter	=	1 pt.						
.946 liter	=	1 qt.						
3.785 liters	=	1 gal.						

Apothecary Measures:

fluid	1 fl. dram	=	.125 oz.					
	8 fl. dram	=	1 oz.					
	128 fl. dram	=	16 oz.	=	1 pt.			

Weight Measures:

dry	1 gram	=	.0353 oz.					
	28.35 grams	=	1 oz.					
	453.6 grams	=	16 oz.	=	1 lb.			
	.45 kg.	=	16 oz.	=	1 lb.			
	1 kg.	=	35.27 oz.	=	2.3 lb.			

1 Gallon of water at room temp. weighs approx. 8 1/3 lb.

1 pint " 1 lb.

revised 4-01 mc.

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