

Technical Data

DEE FO PI-45

ANTIFOAMING/DEFOAMING AGENT FOR AQUEOUS INKS,
PIGMENT DISPERSIONS AND OVERPRINT VARNISHES

GENERAL DESCRIPTION AND PRODUCT FEATURES: DEE FO PI-45 is an extremely effective defoamer that utilizes the latest cutting edge foam control technologies. DEE FO PI-45 was developed to provide the following benefits:

1. Excellent grind and pigment process aid.
2. Eliminate microfoam in high shear press and metering system(s) including long-term effectiveness during lengthy high shear press runs.
3. Easy to incorporate while providing long-term persistence.
4. Superior substrate compatibility by eliminating film defects.
5. Improve leveling on high hold out substrates (such as paper, flexible films and foils).

DEE FO PI-45 will not interfere with essential ink film properties such as hardness, adhesion, gloss, clarity and chemical resistance.

APPLICATIONS: For Flexographic and Gravure applications, DEE FO PI-45 can be added in the letdown process at 0.1% to 0.4% utilizing a common lab mixer running at approximately 750 rpm for 5 to 10 minutes. These applications include pre-print, multi-wall bag, tag and label, film and foil and overprint varnish. Other applications such as newsprint and corrugated may require 0.4 to 1.0% dosage levels.

SPECIFICATIONS: (Revision Date: 09/14/99)

Appearance	Translucent, off-white liquid
Viscosity (Brookfield RVF, Spindle #4, 20 RPM, 25°C) cps	2500 to 5000
Weight per Gallon, pounds	8.35 to 8.55
pH	7.0 to 8.5
% Non-Volatile by Weight	63 to 67
Specific Gravity @ 25°C (Theoretical)	1.002 to 1.026

TYPICAL PROPERTIES:

Flash Point, PMCC/°C >204

SHIPPING CONTAINERS:

57 Gallon Poly Drum 480 Lbs. Net per Drum
5 Gallon Pail 42 Lbs. Net per Pail

HANDLING AND STORAGE: Store at room temperature. Avoid prolonged storage above 43°C (110°F). If frozen or stored above 43°C, return to room temperature and mix thoroughly before use. Refer to Material Safety Data Sheet for additional safety and handling information.

Revised: 12/16/03
Previously Revised: 07/24/01

Page 1 of 2



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ISO 9001
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MUNZING GROUP 
THE ULTIMATE ADDITIVES COMPANY™

DEE FO PI-45

SOLIDS AND VOLATILES CONTENT

Solids, weight %	65.0%	VOC, weight %	0.8%
Water, weight %	34.2%	VOC, grams/liter	8.1

HAZARDOUS COMPONENTS

Ozone depleting substances	None
Hazardous air pollutants	None
Heavy metals	None
CONEG status	Pass
Alkyl, nonyl phenol ethoxylates	None
Tin, organotin compounds	None
Other endocrine disruptors	None

TOXIC SUBSTANCES CONTROL ACT (TSCA) REQUIREMENTS

Section 5(e) or 5(f) consent order	None
Section 12(b) - export notification	None
Other	None

FDA (21 CFR) CLEARANCES

Call Ultra Additives for other FDA clearances.

175.105 Adhesives	Yes
176.170 Components of paper and paperboard/aqueous & fatty foods	Yes
176.180 Components of paper and paperboard/dry food	Yes
176.200 Defoaming agents used in coatings	No
176.210 Defoaming agents used in manufacture of paper & paperboard	No
Other	Call

Note: Defoamers that clear 176.200 may be used in components intended to clear 176.170 and 176.180.

ANIMAL DERIVED COMPONENTS

Contains animal derived products:	No	Kosher:	Yes
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PESTICIDE CLEARANCES

Exemption from requirement of a tolerance	Not determined
40 CFR 180.1001, paragraph(s):	Not determined
Pesticide Inert Ingredients List	Not determined