

TECHNICAL DATA SHEET 1000

Page 1 of 1

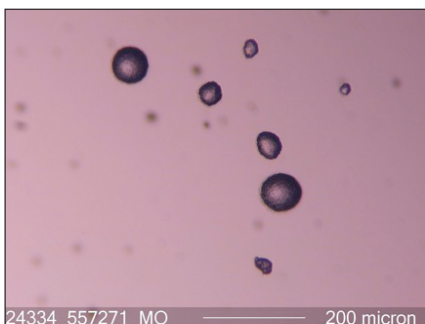
PTFE Microparticles (Microdispers and DispersEZ)

Catalog Numbers: 24333, 24334, 24336, 24339

DESCRIPTION

Microdispers and DispersEZ are polytetrafluoroethylene (PTFE) particles provided in dry form. These particles require far less added dispersant than traditional PTFE particles to form stable dispersions, and they are useful for many applications including coatings, gloss reducers, and coating additives that impact water pickup or surface energy. With good flow properties, these PTFE particles are easily compounded in a number of thermoplastic matrices with appropriate heat / shear mixing.

DispersEZ particles are a novel class of PTFE particles that have chemically treated surfaces to orient stabilizing polar moieties (both hydroxyl and carboxyl groups) to the exterior of the particle. DispersEZ disperse easily in both aqueous and solvent media without the need for added surfactants or stabilizers. The hydroxyl and carboxyl moieties on the particle surface act as synthetic handles to which a variety of chemical species may be attached.



24334 557271 MO ————— 200 micron
Microdispers-3000

ORDERING INFORMATION

Cat. #	Description	Nom. Diam.	Size
24333	Microdispers-200	200 - 300nm	100g
24334	Microdispers-3000	3µm	100g
24336	Microdispers-8000	8 - 11µm	100g
24339	DispersEZ-300	200 - 300nm	50g

CHARACTERISTICS

Microdispers-200, Microdispers-3000, Microdispers-8000

Coefficient of Variation: Broad size distribution
Functional Groups: None
Form: White granular dry micropowder
Melting Point: ~325 - 335°C
Specific Gravity (at 23°C): 2.25 g/cm³
Solvent Compatibility: Particle concentrations up to 20% solids in ketones, glycols, and alcohols
Buffer Compatibility: Surfactants (e.g. Triton® X-100, Surfynol 440) added to aid in dispersing the particles

DispersEZ-300

Coefficient of Variation: Broad size distribution
Functional Groups: Carboxyl and hydroxyl (~1 x 10⁷ groups/particle)
Form: Cream-colored dry powder
Melting Point: 320-325°C
Hydrophobicity: Contact angle measurements up to 140°, but usually ~120°
Solvent Compatibility: Glycols, ketones, some aromatics, isoparaffins
Buffer Compatibility: Should not need surfactants or stabilizers

STORAGE AND STABILITY

PTFE particles should be stored in the original bottle at room temperature.

These products are for research use only and are not intended for use in humans or for *in vitro* diagnostic use.

TO ORDER

In The U.S. Call: 1(800) 523-2575 • (215) 343-6484
In The U.S. Fax: 1(800) 343-3291 • (215) 343-0214

In Germany Call: +(49) 6221-765767
In Germany Fax: +(49) 6221-764620

In Asia Call: (886) 2 8712 0600
In Asia Fax: (886) 2 8712 2677

Order online anytime at www.polysciences.com