Product Overview

This modified PTFE dispersion is engineered specifically for high-performance nonstick cookware coatings. It features a stabilized PTFE particle system with excellent brightness, uniform film formation, and outstanding abrasion resistance after sintering. The optimized rheology and particle distribution enable smooth application in primer, mid-coat, and top-coat formulations, delivering superior nonstick properties, long-term durability, and consistent batch-to-batch quality. Suitable for water-based fluoropolymer coating systems requiring high gloss, enhanced mechanical strength, and reliable process stability.

Typical Applications: Hhigh-grade non-stick coating topcoat (PFOA free).

Package: (25±0.1) kg per drum, and IBC Tanks 1400kgkg.

TYPICAL PROPERTIES OF PTFE Dispersion PF-DW (Data not for specification purposes)

Properties	Test Method	Unit	PF-DW
Appearance			White or yellowish liquid
Solid Content, %	ASTM D4441	%	60 ± 2
Surfactant, %	ASTM D4441	%	4.0-7.0
PH	ASTM E70		8.0 - 10.0
Viscosity, (x10-3 Pa.s)	ASTM D2196	$x10^{-3}$ Pa.s	10 - 50

COMPLIANCE

- **REACH-Compliant**: Pass SVHC or Potential SVHC test.
- **PFAS-Compliant**: Free from 545 regulated PFAS substances.
- **FDA-Compliant**: Meets US FDA 21 CFR 177.1550 for PTFE.
- **RoHS-Compliant**: Meets EU Directive 2015/863 for restricted substances.

STORAGE AND HANDLING

1. Not classified as hazardous for transport.
2. The PTFE particles will settle on prolonged standing and/or on prolonged heating—temperatures above 40 °C (104 °F) should be avoided. The dispersion must be protected from freezing, which will cause irreversible settling.
3. The optimum storage temperature range is **15–25 °C (53–76 °F).** If dispersions are to be stored for extended periods, lower-temperature storage is desirable.
4. For optimal performance, PF-DW should be gently mixed or rolled monthly and prior to use.
5. During transportation and storage, avoid heavy shaking, and prevent solarization.
6. It should stock in a clean, cool, and dry warehouse, to prevent agglomeration and contamination.
7. The pH of opened containers should be measured and maintained between 8 and 10.

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