

Product Overview

MOVING YOUR WORLD



NYEBAR T

A barrier film that inhibits oil migration in mechanical devices and prevents environmental fouling of electric components.

PACKAGING OPTIONS

- 60 ml glass bottle
- 1 liter glass bottle
- 1 gal (4,000 ml) jug

CONCENTRATION

- 0.2%
- 1.0%
- 2.0%

A monomolecular layer of the NYEBAR Type T film should be effective as a protective barrier or for applications where oil migration is a concern.

SAMPLES

Samples of NYEBAR T will be available upon request. Please contact your Business Development Engineer to request your sample.

PRODUCT DESCRIPTION

NYEBAR P has been obsoleted due to a declaration of Force Majeure at our supplier. NYEBAR T is replacing NYEBAR P and is considered to be a functional replacement. This fluorocarbon barrier film inhibits oil migration in mechanical devices and prevents environmental fouling of electric contacts and printed circuitry. For applications where low outgassing is a key property, baking the applied film for approximately 2 hours at 120°C is recommended to achieve optimum results

PROCESS INTENTIONS

NYEBAR was reformulated after an exhaustive evaluation of available raw materials to create NYEBAR T, a formulation that complies with requirements set forth by the Montreal Protocol and the latest PFAS global regulations.

NYEBAR T has been tested and is in compliance with the following standards:

- Gravimetric analysis to ensure the proper amount of solids is dissolved within the solvent per CTM-19 (Company Test Method).
- Contamination in solution per MIL-B-81744A, 4.2.7 to ensure a water drop shall spread within the barrier film circle.
- Abrasion per MIL-B-81744A, 4.2.4 to ensure the fluid does not pass through the barrier film.
- Thermal stability of a dried film at 24 hrs, 175 °C per MIL-B-81744A, 4.2.6 to ensure the fluid does not pass through the barrier film.
- Contact angle on glass per MIL-B-81744A, 4.2.5 to ensure the contact angle is a minimum of 60 degrees.

COMPARISON RESULTS

TEST & CONDITIONS	REQUIREMENTS	NYEBAR P	NYEBAR T	TEST METHODS
Gravimetric Analysis	0.19% ± 0.01	0.192%	0.195%	CTM-19
Contamination in Solution	Water drop shall spread within the barrier film circle	Pass	Pass	MIL-B-81744A, 4.2.7
Abrasion	Fluid does not pass barrier film	Pass	Pass	MIL-B-81744A, 4.2.4
Thermal Stability Dried Film at 175 °C (24 h)	Fluid does not pass barrier film	Pass	Pass	MIL-B-81744A, 4.2.6
Contact Angle on Glass	60° minimum	68.1°	75.0°	MIL-B-81744A, 4.2.5
Workmanship	Clear & Homogenous	Clear & Homogenous	Clear & Homogenous	Visual
Outgassing	TML: ≤ 1.0% CVCM: ≤ 0.1%	TML: 0.515% CVCM: 0.000%	TML: 0.444% CVCM: 0.000%	ASTM E595

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