

# 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.

### 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 (N/A)	Water drop shall spread within the barrier film circle	Pass	Pass	MIL-B-81744A, 4.2.7
Abrasion (N/A)	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 (N/A)	60° minimum	68.1°	75.0°	MIL-B-81744A, 4.2.5
Workmanship (N/A)	Clear & Homogenous	Clear & Homogenous	Clear & Homogenous	Visual

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NYEBAR® is a registered trademark of Nye Lubricants – Member of the FUCHS Group.