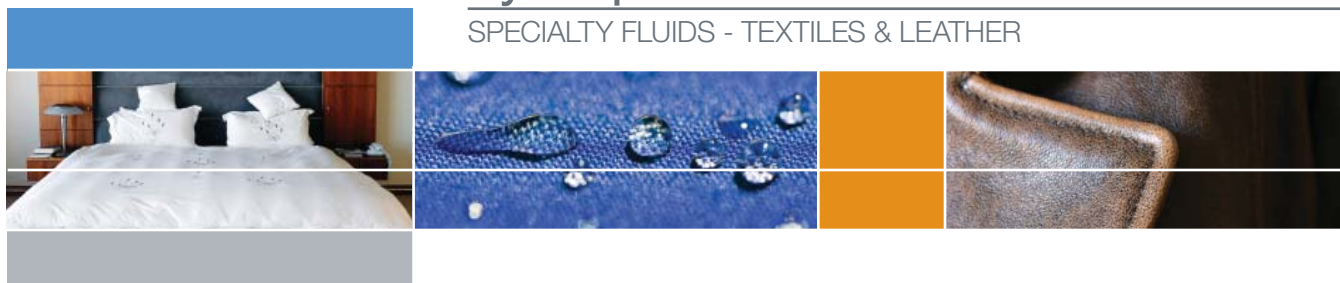


NUWET* 237

hydrophilic finish

SPECIALTY FLUIDS - TEXTILES & LEATHER



NuWet 237 hydrophilic finish is an excellent candidate to consider for use on polypropylene, polyethylene and polyester nonwoven substrates. NuWet 237 hydrophilic finish can help provide durability for one- or two-time use applications. In addition to hydrophilicity, this product can help impart softness to nonwovens.

The material may also be considered for use on cellulosic and rayon substrates where softening and enhanced wettability are desired.

Key Features and Typical Benefits

NuWet 237 Hydrophilic Finish

- standard hydrophilic finish
- instant strike-thru
- non-migrating
- softening properties
- water soluble

Typical Physical Properties	
	NuWet 237 Hydrophilic Finish
Percent Actives	100
Appearance	Clear
Color	Amber colored
Nominal Viscosity, cP	425
Ionic Nature	Nonionic

Typical data are average data and actual values may vary. Typical data shall not be used as product specifications.

NUWET* 237 hydrophilic finish

Performance

The hydrophilic properties of NuWet 237 hydrophilic finish have been evaluated at 0.5% and 1.0% add-on levels on 100% spunbonded polypropylene and polyester nonwovens using both water and synthetic urine as the wetting agents. Product hydrophilicity was measured initially and after multiple insults using AATCC Test Method 79-1995. From the test results shown in Tables 1 and 2, it can be seen that the durability of the hydrophilic finishes increased from one or two insults with NuWet 237 hydrophilic finish using the test protocol employed.

In the test series shown in Tables 1 and 2, NuWet 237 hydrophilic finish was applied by pad bath. However, it can also be applied by other techniques such as spray, kiss-roll, foam finishing, etc., either neat or from aqueous or non-aqueous media.

Table 1: Hydrophilic Properties of NuWet 237 hydrophilic finish on 100% Spunbonded Polyester Nonwoven [(1.3 oz/yd²) (44g/m²)]

Wetting Agent	Wetting Time, ⁽¹⁾ sec					1.0% BOWF				
	0.5% BOWF					Insults				
	Insults ⁽²⁾					Insults				
	Initial	1	3	5	9	Initial	1	3	5	9
Distilled Water										
Untreated Control	>180	>180	>180	>180	>180	>180	>180	>180	>180	>180
NuWet 237 Hydrophilic Finish	2	30	>180	-	-	1	8	>180	-	-
Synthetic Urine ⁽³⁾										
Untreated Control	>180	>180	>180	>180	>180	>180	>180	>180	>180	>180
NuWet 237 Hydrophilic Finish	2	17	>180	-	-	2	12	>180	-	-

(1) AATCC Test Method 79-1995 (average of 5 readings)

(2) Placed 3" x 3" nonwoven swatch into 600 mL water, stirred for 1 min with magnetic mixer, removed, dried 2 min at 100°C, conditioned 2 hr at 60% RH/70°F before retest

(3) "Syn-Urine" (Jayco Pharmaceuticals)

Table 2: Hydrophilic Properties of NuWet 237 hydrophilic finish on 100% Spunbonded Polyester Nonwoven [(0.65 oz/yd²) (22g/m²)]

Wetting Agent	Wetting Time, ⁽¹⁾ sec					1.0% BOWF				
	0.5% BOWF					Insults				
	Insults ⁽²⁾					Insults				
	Initial	1	3	5	9	Initial	1	3	5	9
Distilled Water										
Untreated Control	>180	>180	>180	>180	>180	>180	>180	>180	>180	>180
NuWet 237 Hydrophilic Finish	1	2	>180	-	-	1	1	>180	-	-
Synthetic Urine ⁽³⁾										
Untreated Control	>180	>180	>180	>180	>180	>180	>180	>180	>180	>180
NuWet 237 Hydrophilic Finish	1	60	>180	-	-	1	1	>180	-	-

(1) AATCC Test Method 79-1995 (average of 5 readings)

(2) Placed 3" x 3" nonwoven swatch into 600 mL water, stirred for 1 min with magnetic mixer, removed, dried 2 min at 100°C, conditioned 2 hr at 60% RH/70°F before retest

(3) "Syn-Urine" (Jayco Pharmaceuticals)

NuWet 237 hydrophilic finish was also compared with an organic surfactant that has been used to improve hydrophilic properties of polypropylene and polyester nonwovens. The data in Table 3 clearly shows that NuWet 237 hydrophilic finish imparted superior hydrophilicity not only initially (1–2 seconds versus 25–28 seconds) but after multiple insults.

Table 3: NuWet 237 Hydrophilic Finish

Wetting Agent	Durability			
	100% Spunbonded Polyester (0.65 oz/yd ²)		100% Spunbonded Polyester (1.3 oz/yd ²)	
	Initial, ^(a) Seconds	Insults to Failure ^(b)	Initial, ^(a) Seconds	Insults to Failure ^(b)
Distilled Water				
NuWet 237 Hydrophilic Finish	2	1-2	1	1-2
Conventional Organic (alkylphenoethoxylate)	25	0 ^(c)	28	0 ^(c)
Untreated Control	>180	0	>180	0

(a) AATCC Test Method 79-1995

(b) Placed 3" x 3" nonwoven swatch into 600 mL water, stirred for 1 min with magnetic mixer, removed, dried 2 min at 100°C, conditioned 2 hr at 60% RH/70°F before retest

(c) Did not survive one insult.

Note: Test data. Actual results may vary.

NUWET* 237 hydrophilic finish

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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