INDUSTRIAL ENAMED AND THE

Freestyle

PHYSICAL PROPERTIES							
Weight (+ or - 5'	%) oz (sq yd) ns (sq meter)	4.5 oz (sq yd) 153g (sq meter)	6.0 oz (sq yd) 203g (sq meter)	6.8 oz (sq yd) 231g (sq meter)	7,5 oz (sq yd) 254g (sq meter)	7,115	
e e e e e e e e e e e e e e e e e e e	Weave	†Plain	Rláin	Twill	Plain,	/ASTM1F1891 Requirements	NFPAI2112 Requirements
Standard Colors (other colors available	upon request)	●○●◎ ⊕●		G: O	1 categoria (1971) Propins (12)	nequirements	an inchair and a
Thickn	ess (inches)	0.020	01020	01022	0.022	la de la companya de	
Construction (warp		66 x 43	67 x 44	89 x 64	50 x 54		ryo ka marana Lagadara (k. 20
Vertical Flammability AST After 100x Char Length (i Launderings After Flame (se	M D 6413499 nches [w x f]) conds [w x f])	2.8 x 2.8 0.0 x 0.0	2:4:x:2:4 0:0:x:0:0	2:5;x/2:5 0:0;x/0:0	2:3:x:2:3 0:0:x:0.0	410 max. 2.0 max.	4.0 max. 2.0 max.
Thermal Protective F	Performance ²) NFPA 2112	10.0 4.5	12.0 6.0	14.0 7.0	14.0 7.5	6:0 min (w/spacer) 3:0 min (no spacer)	3:0min:(w//spacer) 3:0min:(no.spacer)
Flash Fire Exposure (Manikin/Test)// (% body burn [2:0 cal/cm² sec	ASTM F 1930 at 3 seconds)	pass	(pass	pass.	pass	50:0 max.	50.0 max.
ARC Thermal Performance ATPV (cal/cm² After Flame @ 10) ASTM F1959 cal (seconds)	4.6 - 4.8 < 1.0	5.7 - 5.9 < 1.0	6.5 - 7.0 < 1.0	6.6 - 6.9 < 1.0		The state of the s
Tensile Strength (lbs [wexif]) A	STM D 5034	170 _/ x 100	,240 _r x 150	260 x (180	260 x 240		ed to
Elmendorf Tear Strength (lbs [w x f])	ASTM D 1424	10 x 7	12 x 8	12 x 8	16 x 13		
Dimensional Stability 3-IV, Alii (b	y AATCC 135 oth directions)	≤3.0	>≤3!0	≥310	.≤30		enter annungang saksi saman ayun mengganggan ke
Air Permeability (ft³/ft²/minutes)	ASTM D 737	210	80	25	60	English and Artist Control of the Section 1982	Allegan and a second
Washing:G 140°F Industrial Wash, 160°F Max	olorfastness Stack Dry [25x]	*4. **** *4	*4 *4	*4 *4	*4 *4		
Colorfastness to Xenon Light (20 hour	rs) AATCC 16	*3-4	*3-4	*3-4	*3-4		
Crocking A'A'	TCC:8 Wet Dry	*3-4 - All Colors *5 - All Colors	*3:4:- All Colors *5:- All Colors	*3:4:-/All Colors *5:-/All Colors	*3:4 - All Colors *5 - All Colors		
Wicking (distance in seconds) {1" strip, tap water}	0.5 inches 1.0 inches 1.5 inches 2.0 inches	3 13 34 62	3 10 27 58	6 14 37 79	3 12 34 70		
Theoretical Moisture	::Regain (%)	4.5	4.5	4.5	4.5		Dro March Colon Co
Pilling Resistance ASTM D 3512	30 minutes 60 minutes 90 minutes 120 minutes	*4 *5 *5 *5	*4 *5 *5 *5	*4 *5 *5 *5	*3 *4 *5 *5		
Heat [,] Resistance (500%) After 100 Industria	F, 5;minutes) I Launderings	pass	pass	pass	pass	shall not melt, drip, separate or ignite	shall not melt/drip, separate or ignite
Thermal Shrinkage Resistance (%[500° After 100 Industria		< 2.0	< 2.0	< 2.0	< 2.0	1010smaximum	10i0:maximum
Appearance of Fabric After 50 Home	AATCC 124 Launderings	*4	*4	*4	*4		

Ratings: *5 - Best, *3 - Acceptable, *1 - Poor





LAUNDERING: Garments made with FREESTYLE™ fabrics are easily maintained by home or industrial laundering. For detailed laundering specifications, please contact TENCATE at (800) 241-8630.

SUNLIGHT/UV EXPOSURE ADVISORY: Prolonged sunlight and UV exposure can be damaging to aramid and PBO fibers.

Both natural (undyed) and dyed aramid and PBO fibers will fade or change color with exposure to sunlight or other UV sources.

The thermal performance is not affected, but long term or repeated exposures will cause the fabric to gradually weaken. Garments should be stored so that they are protected from sunlight, including windows and bay doors, to maximize wear life. SOUTHERN MILLS, Inc. OFFERS NO WARRANTIES, IMPLIED OR OTHERWISE, FOR COLOR CHANGE OR FABRIC DAMAGE DUE TO UV EXPOSURE.

To the best of our knowledge, the information contained herein is accurate. However, SOUTHERN MILLS, Inc. assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. We have described certain hazards, but we cannot guarantee that these are the only hazards.

©2008 SOUTHERN MILLS, Inc. TENCATE is a trademark of ROYAL TEN CATE NV. FREESTYLE is a trademark of SOUTHERN MILLS, Inc. SOUTHERN MILLS, Inc. patents pending.

03/11/08 162-08-002 940.1238 without sample/940.1239 with sample



materials that make a difference

TenCate Protective Fabrics SOUTHERN MILLS, Inc.

6501 Mall Blvd. P.O. Box 289

Union City, GA 30291 Phone: 770.969.1000 Fax: 770.969.6846

Toll Free: 800.241.8630 www.tencate.com/protective

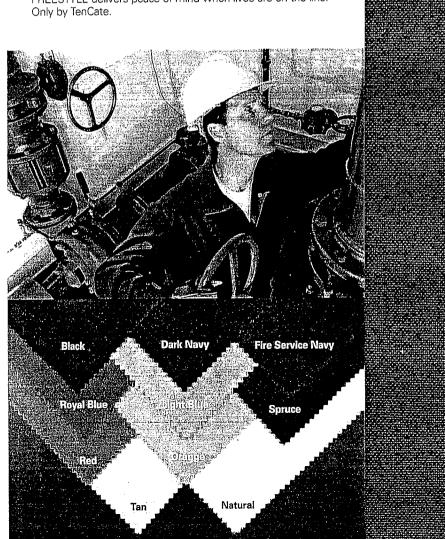
TENCATE Freestyle

INDUSTRIAL SAFETY

FREESTYLE" fabrics are perfect for head-to-toe protection against flash fire, electric arc and other dangerous conditions. Lightweight, breathable fabrics made of Nomex® combine unsurpassed flame resistance and exceptional durability wash after wash for the ultimate in comfort and durability.

- NFPA 2112 compliant meets and exceeds standard for protection against flash fire.
- Proven Nomex performance flame-resistant protection for a broad range of high-risk industries.
- Exceptional value perfect fit for electric and gas utilities, fire service stationwear, petroleum refineries, chemical, racing or military.
- Unbeatable durability retains professional look even after rugged use.
- Easy care comfort proprietary wicking finish. Stays soft, keeps you cool and dry.

FREESTYLE delivers peace of mind when lives are on the line.



ANTI MITTANE AVE

Style 376

Aramid military apparel

PHYSICAL PR	OPERTIES	Style 376	Mil-C-83429B Type II Class 6 Requirements
Yarns per inch (warp x fill)	FTMS 191A-5050	72 x 54	70 x 47 min
Breaking Strength (lbs) (warp x fill)	ASTIM D 5034	200 × 130	1/80 × 1/00
Tearing Strength (lbs) (warp x fill)	ASTM D 1424	15 x 12	12 x 8
Fabric Break Open (sec)	Mil-C-83429B	>30	>30
Air Permeability (cu. Ft/min)	FTMS 191A-5450	110	25-160
Flame Resistance (warp x fill) after flame (sec) after glow (sec) char length (inches)	FTIMS 191A-5903	0.×.0 0.9.×.0.9 2.0.×.240	2:0°max 25:0°max 4:0;max
На	FTMS 191A-2811	6.7	4.0-8.0
Dimensional Stability (warp x fill) after 15 launderings	FTMS 191/A-5556 (mobile)	** <4/0.x.<1.5	<4:0.x <1:5
Seam Efficiency (%)	FTMS 191A-5110	100	>80
DUVCICAL DR	ODEDTIES	Style 276	Currently available

.e	PHYSICAL PROPERTIES	Style 376	Currently available product ratings
Pilling 30 minutes 60 minutes	∕AS\\\I\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	.5 445	.3 .3
90 minutes 120 minutes		4-0 V	Ž

COMPOSITION: 92% NOMEX®

5% KEVLAR®

3% P-140

WEIGHT: 4.7 oz (sq yd)

FABRIC CONSTRUCTION: Plain Weave

COLOR: Tan, Sage

END USE: Battle Dress Uniforms



Plant Ray is a ISO-9001-2000 Certified Facility

LAUNDERING: Garments made with STYLE 376 fabrics are easily maintained by home or industrial laundering. For detailed laundering specifications, please contact SOUTHERN MILLS at (800) 241-8630.

SUNLIGHT/UV EXPOSURE ADVISORY: Prolonged sunlight and UV exposure can be damaging to aramid and PBO fibers. Both natural (undyed) and dyed aramid and PBO fibers will fade or change color with exposure to sunlight or other UV sources. The thermal performance is not affected, but long term or repeated exposures will cause the labric to gradually weaken. Garments should be stored so that they are protected from sunlight, including windows and bay doors, to maximize wear life. SOUTHERN MILLS OFFERS NO WARRANTIES, IMPLIED OR OTHERWISE, FOR COLOR CHANGE OR FABRIC DAMAGE DUE TO UV EXPOSURE.

To the best of our knowledge, the information contained herein is accurate. However, SOUTHERN MILLS assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. We have described certain hazards, but we cannot guarantee that these are the only hazards.

©2006 SOUTHERN MILLS, Inc. TENCATE is a trademark of ROYAL TEN CATE NV. SOUTHERNMILLS is a trademark of SOUTHERN MILLS, Inc. NOMEX® and KEVLAR® are registered trademarks of DuPont or its affiliates. SOUTHERN MILLS patents pending.

TENCATE

materials that make a difference

SOUTHERN MILLS, Inc.

TenCate Protective Frabrics 6501 Mall Blvd. P.O. Box 289 Union City, GA 30291 Phone: 770.969.1000 Fax: 770.969.6846 800.241.8630

www.tencate.com/protective

MILITARY

Style 376

Aramid military apparel

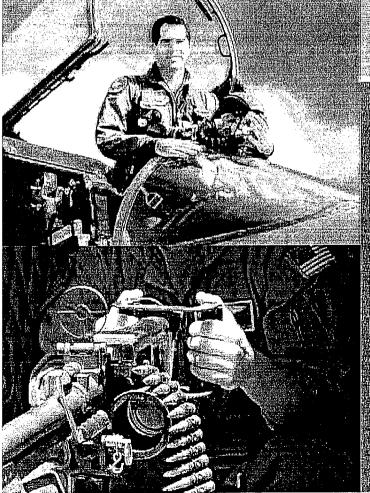
Style 376 high-tech fabric offers significant advantages thanks to its superior performance in:

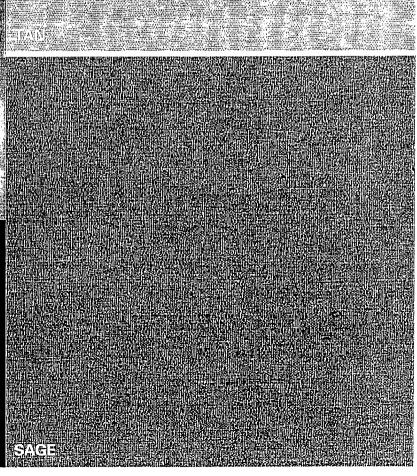
- •Comfort Increased air permeability provides improved breathability and comfort.
- •Durability Increased abrasion resistance assures better fabric performance under rugged conditions.
- •Appearance Reduced pilling improves the overall appearance. Higher flexural rigidity delivers improved performance through a firmer hand, better drape of the garment, and by helping the garment maintain its shape.
- •MIL-C-83429B compliant for physical requirements

Available colors: tan and sage

Applications: 27/P

CVC Coveralls 66P Chem Defense IABDU (Army) Anti-G Suits





EEMERGENOVARESEONS

TENCATE Advance

FIBER BLEND: 60% KEVLAR®

40% NOMEX®

WEIGHT: 7.0 oz (sq yd) WEAVE: Rip-Stop

COLORS: Black, Navy, Gold, Yellow, Khaki

FINISH: SUPER SHELLTITE™,

SHELLTITE™

END USE: Turnout Gear Outer Shells

ADVANCE™ offers proven performance in an amazingly affordable outer shell fabric. Its special construction, engineered from a blend of DuPont™ KEVLAR® and NOMEX® brand fibers, provides high strength, durability and thermal protection.

- Outstanding thermal protection Exceptional thermal integrity allows the use of lightweight liners for added comfort, flexibility and performance without compromising thermal protection.
- Proven durability Built-in protection of fiber blend and rip-stop weave provides strength and flexibility even after extreme thermal exposure.
- Long-lasting dependability Proven track record in the field.
- Highly affordable Hardworking outer shell at a great price.

ADVANCE delivers peace of mind when lives are on the line. Only by TenCate SouthernMills.

PHYSICAL PROPERTIES	ADVANCE™	NFPA 1971-2007 Edition Requirements
Trapezoidal Tear Strength (lbs) Initial (warp x fill) After 5 launderings (warp x fill)	40 x 35 35 x 30	22.0 min
Tensile Strength (lbs) Initial (warp x fill) After 10 launderings (warp x fill)	320 × 280 270 × 250	140.0 min
Thermal Protective Performance (cal/cm²) NFPA 1971-2007 TPP with Crosstech® Type 2c, CALDURA® SILVER NP	40 - 43	35.0 min
Tensile Strength (lbs) after 17:5-second TPP Exposure (2.0 cal/cm²•sec) (warp x fill)	15 × 10	
Water Absorption Resistance (%) Initial After 5 launderings AATCC 42	< 3.0 < 10.0	30.0 max
Vertical Flammability Char Length in inches (warp x fill) (Initial) Char Length in inches (warp x fill) (After 75 launderings)	0%6;x%0%6 0%5;x%0%5 0%0;x%0%0	4:0 max 2:0 max
After Flame in seconds (warp x fill) Laundry Shrinkage (%) After 5 launderings (cotton sturdy cycle) (warp x fill)	< 5.0 x < 5.0	5.0 max
Thermal Shrinkage (%) 500°F at 5 minutes After 5 launderings	< 0/5 < 1/0	10.0 max





Plant Ray is a ISO-9001-2000

Nomex. Kevlar.

№ TENCATE SOUTHERNMILLS"

The Most Trusted Name In Protective Fabrics.

SUNLIGHT/UV EXPOSURE ADVISORY: Prolonged sunlight and UV exposure can be damaging to aramid fibers. Both natural (undyed) and dyed aramid fibers will fade or change color with exposure to sunlight or other UV sources. The thermal performance is not affected, but long term or repeated exposures will cause the fabric to gradually weaken. Garments should be stored so that they are protected from sunlight, including windows and bay doors, to maximize wear life. SOUTHERN MILLS OFFERS NO WARRANTIES, IMPLIED OR OTHERWISE, FOR COLOR CHANGE OR FABRIC DAMAGE DUE TO UV EXPOSURE.

To the best of our knowledge, the information contained herein is accurate. However, SOUTHERN MILLS assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. We have described certain hazards, but we cannot guarantee that these are the only hazards.

©2007 SOUTHERN MILLS, Inc. TENCATE is a trademark of ROYAL TEN CATE NV. SOUTHERNMILLS, ADVANCE, SUPER SHELLTITE and SHELLTITE are trademarks of SOUTHERN MILLS, Inc. CALDURA is a registered trademark of SOUTHERN MILLS, Inc. Crosstech is a registered trademark of W.L. Gore & Associates. DuPont^{IM}, KEVLAR® and NOMEX® are trademarks or registered trademarks of DuPont or its affiliates. SOUTHERN MILLS, Inc. patents pending.

SOUTHERN MILLS, Inc.

6501 Mall Blvd. P.O. Box 289 Union City, GA 30291

Phone: 770.969.1000 Fax: 770.969.6846 Toll Free: 800.241.8630

www.southernmills.com

TENCATE Advance

EMERGENCY RESPONSE

