

PRODUCT GUIDE: ROPE & CORDAGE

LINKING VERSATILITY, STRENGTH AND DURABILITY





ROPE & CORDAGE: LINKING VERSATILITY, STRENGTH AND DURABILITY

From the simplest everyday use to the most complex application, creating strong, long-lasting rope and cordage starts with creating long-lasting fibers. Performance Fibers' broad portfolio offers some significant advantages over both natural and wire based products. So whether you are mooring a cruise ship, mountain climbing, or just hanging laundry, our products are ready to serve.

Applications include:

boating/marine lines and rigging; heavy-duty offshore mooring lines; commercial fishing lines and netting; sports and recreation equipment; and everyday household uses.

FEATURES AND BENEFITS:

- Fiber property consistency and uniformity mean less variation in manufacturing, greater productivity and overall break strength reliability
- High strength-to-weight ratios help ensure better rope and cordage manufacturing yields and additional strength and durability
- Good ultraviolet stability provides a lower rate of decay in outdoor applications and greater breaking-strength retention
- Our SeaGard® Marine Overlay Finish gives lines and cords good wet abrasion resistance and greater durability

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

(fiber and fabric for your most demanding and delicate applications)

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Rope & Cordage (Part 1)																							
Product	Features/ Benefits	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled	Twisted	Breaking Strength			Tenacity		Elongation @ 54cN/tex	Elongation @ 45N (10 LBS)	Elongation @ break	Thermal Shrinkage 177°C-0.05gpd-2min	Thermal Shrinkage 190°C-0.01gpd-15min	Hot Air Shrinkage 180°C-0.01gpd-15min	Free Shrinkage 177°C-0.01gpd-2min	Hot Air Shrinkage 177°C-zero load-30min	Shrinkage Force 180°C
								(V0)	(T/m)	(lbs)	(kg)	(N)	(g/d)	(cN/dtex)									
77	Multiplex	X			6500	7150			S or Z	95.0	43.1	423	6.6	5.9									
96	Multiplex	X			7500	8250			S	105.0	47.6	467	6.3	5.5									
					11000	12100			S	153.0	69.4	681	6.2	5.5									
730	Colored		X		1000	1100	200	T0	X	18.4	8.4	82	8.0	7.1			14.9						
					600	660	200	V0		10.8	4.9	48	8.2	7.2	8.0			15.5			13.0		
					750	830	200	V0		13.4	6.1	60	8.0	7.1	8.0			15.0			13.0		
					850	940	200	V0		15.3	6.9	68	8.0	7.1	9.0			15.0			13.0		
					1000	1100	200	V0	VZS100	18.5	8.4	83	8.3	7.4	8.5			14.0			18.0		
					1500	1670	200	V0	VZ60,100	27.2	12.3	121	8.1	7.2	9.0			14.5			18.0		
734			X		1000	1100	200	V0	On Request	20.2	9.2	90	9.1	8.0	5.8					11.0			
					1500	1670	200	V0	On Request	30.3	13.8	135	9.1	8.0	6.7			12.0			11.0		
					2000	2200	400	V0	On Request	39.6	17.9	176	9.1	8.0	5.8			11.0			11.0		

V0 = intermingling with no twist; T0 = no twist, no intermingling

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Rope & Cordage (Part 2)																																
Product	Features/ Benefits	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled		Twisted			Breaking Strength		Tenacity		Elongation @ 54cN/tex	Elongation @ 45N (10 LBS)	Elongation @ break	Thermal Shrinkage 177°C-0.05gpd-2min	Thermal Shrinkage 190°C-0.01gpd-15min	Hot Air Shrinkage 180°C-0.01gpd-15min	Free Shrinkage 177°C-0.01gpd-2min	Hot Air Shrinkage 177°C-zero load-30min	Shrinkage Force 180°C							
								(V0)	(T/m)	(lbs)	(kg)	(N)	(g/d)	(cN/dtex)	(%)	(%)										(%)	(%)	(%)	(%)	(%)	(cN)	
785	SeaGard® Marine Overlay Finish	X			1100	1220	192	V0		22.2	10.1	99	9.1	8.1			12.6															
					2200	2440	384	V0		44.2	20.1	197	9.0	8.0			13.4															
			X			420	467	35	V0		8.1	3.7	36	8.8	7.8			14.3			12.0			9.2								
						500	550	70	V0		9.5	4.3	42	8.6	7.6			13.0							16.2							
						750	830	70	V0		14.4	6.5	64	8.7	7.7			12.3								16.2						
						840	930	70	V0		16.9	7.6	75	9.1	8.0				13.9	7.9								12.5				
								140	V0		16.1	7.3	72	8.7	7.7				15.0	5.7								9.5				
						1000	1110	100	V0		20.7	9.4	92	9.1	8.0				14.0	7.9									12.5			
								118	V0		20.3	9.2	91	9.0	7.9				13.0	7.0									11.3			
						1100	1220	140	V0		22.3	10.1	99	9.0	7.9				13.0	7.0									11.3			
						1300	1440	100	V0		25.5	11.6	113	8.9	7.8				13.8	5.7									9.5			
						1500	1670	100	V0		29.9	13.6	133	9.1	8.0				14.8										12.0			
								192	V0		29.1	13.2	129	8.8	7.8				15.0	5.5									9.3			
						2000	2220	236	V0		39.4	17.9	175	8.9	7.9				15.3	7.0									11.3			
						2600	2890	384	V0		52.3	23.7	233	9.0	7.9				13.2	8.4									13.2			
3000	3330	384	V0		59.9	27.1	266	9.0	7.9				13.9	8.8									13.7									
789		X			1000	1110	140	V0		22.7	10.3	101	10.0	8.8			10.5	5.3						9.0								
800		X			1000	1100	192	V0		20.0	9.1	89	9.0	7.9		4.9	12.8	8.4						13.2								
1P81* PenTec®	SeaGard® Marine Overlay Finish		X		1000	1100	140	T0		20.2	9.2	90	9.1	8.0			6.0															
					1300	1440	140	T0		26.3	11.9	117	9.1	8.0			6.0															
					1500	1670	210	T0		30.3	13.8	135	9.1	8.0			6.0															
					2000	2200	210	T0		40.5	18.4	180	9.1	8.0			6.0															

V0 = intermingling with no twist; T0 = no twist, no intermingling
 *Other dtex available upon request (tow from 10,000 to 100,000 denier available)

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Rope & Cordage (Part 3)																														
Product	Features/ Benefits	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled			Twisted			Breaking Strength			Tenacity		Elongation @ 54cN/tex	Elongation @ 45N (10 LBS)	Elongation @ break	Thermal Shrinkage 177°C-0.05gpd-2min	Thermal Shrinkage 190°C-0.01gpd-15min	Hot Air Shrinkage 180°C-0.01gpd-15min	Free Shrinkage 177°C-0.01gpd-2min	Hot Air Shrinkage 177°C-zero load-30min	Shrinkage Force 180°C			
								(V0)	(T/m)	(lbs)	(kg)	(N)	(g/d)	(cN/dtex)	(%)	(%)	(%)	(%)										(%)	(%)	(%)
1W78			X	X	1000	1100	192	V0		20.4	9.3	91	9.2	8.1			10.6	4.5	9.1	8.8	7.0									
					2000	2200	384	V0		40.9	18.5	182	9.2	8.1	7.9		10.6	4.5	8.1	8.8	6.2									
					3000	3340	500	V0		61.0	27.7	271	9.2	8.1			10.6	4.5	8.8	8.8	6.9									
1W83*	SeaGard® Marine Overlay Finish		X		1000	1100	192	V0		20.4	9.3	91	9.2	8.1			10.6	4.5	9.1	8.8	7.0									
					2000	2200	384	V0		40.9	18.5	182	9.2	8.1			10.6	4.5	8.1	8.8	6.2									
1P70 (Non-AA)/ 1P73 (AA)	PenTec® Fiber		X		500	550	70	T0		10.1	4.6	45	9.1	8.0	3.5		6.0	6.5		7.0							300			
					1000	1100	140	T0		20.2	9.2	90	9.1	8.0	3.5		6.0	6.5		7.0								560		
					1300	1440	140	T0		26.3	11.9	117	9.1	8.0	3.9		6.0	6.5		7.0									600	
					1500	1670	210	T0		30.3	13.8	135	9.1	8.0	3.5		6.0	6.5		7.0										840
					2000	2200	210	T0		40.5	18.4	180	9.1	8.0	3.9		6.0	6.5		7.0										850
1W70 (Non-AA)/ 1W73 (AA)	High Tenacity Standard Yarn		X	X	100	165	35	V0		1.9	0.8	8	8.5	7.5			17.0													
					2000	2200	192	V0		41.2	18.8	185	9.4	8.3			15.0	8.0												
					500	550	70	V0		9.8	4.5	44	8.8	7.8			17.0	6.5												
					4000	4400	800	V0		79.5	36.1	354	9.0	7.9			15.0													
					1000	1100	192	V0		20.9	9.5	93	9.4	8.3			13.5	8.0												
			X		1300	1440	200	V0		26.9	12.2	120	9.3	8.2			14.0	7.0	17.0	14.8	15.0									
					1500	1670	200	V0		31.3	14.2	139	9.3	8.2			14.0	7.0		14.8										
					2600	2880	400	V0		53.1	24.1	236	9.2	8.1			15.0	6.5	17.0		14.5									
					3000	3340	400	V0		62.1	28.2	276	9.2	8.1			15.0	6.5	17.0		14.5									
					1000	1100	200	V0		21.2	9.6	94	9.4	8.3			14.0	7.0	16.5	14.8	14.5									
X		2000	2200	400	V0		41.8	19.0	186	9.3	8.2			14.0	7.0	17.0	14.8	15.0												

AA = adhesive activated; V0 = intermingling with no twist; T0 = no twist, no intermingling
 *Other dtex available upon request (tow from 10,000 to 100,000 denier available)

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