

PRODUCT GUIDE: OFFSHORE MOORING

POWERFUL PERFORMANCE FOR DEEPWATER CHALLENGES





OFFSHORE MOORING: POWERFUL PERFORMANCE FOR DEEPWATER CHALLENGES

In an environment where safety and security are paramount, it takes a unique product to stand up to the challenging rigors of deepwater mooring. Performance Fibers meets those challenges with a range of fibers for use in offshore lines that are designed to weather some of the toughest conditions the sea has to offer.

Applications include:

offshore mooring lines for deepwater environments such as oil and gas production platforms; Floating Production Storage and Offloading Vessels (FPSOs); and Mobile Offshore Drilling Units (MODUs).

FEATURES AND BENEFITS:

- A reduced weight-to-strength ratio versus steel cables helps moor platforms in ultra deep water and allows for increased platform deck loads
- Tailored fiber modulus acts as a shock absorber and helps control platform positioning
- Low fiber creep allows for greater platform positioning predictability
- Our SeaGard® Marine Overlay Finish gives lines wet abrasion resistance and durability
- Consistent fiber properties means less variation in the finished mooring line's breaking strength

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

Although Performance Fibers believes that the suggestions regarding the possible uses of the products as well as the other statements contained in this publication are accurate and reliable, they are presented without guarantee or responsibility of any kind and are not representations or warranties of Performance Fibers, either express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments and the user assumes all risks and liability (including, but not limited to, risks relating to results, patent infringement and health, safety and the environment) for the results obtained by the use of the products and suggestions contained herein. © 2009 Performance Fibers

U.S.: +1 800 486 0148
 Europe: +352 265 033 67
 China: +86 21 5228 5511
 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

www.performancefibers.com

Offshore Mooring																					
Product	Features/ Benefits	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled	Twisted	Breaking Strength			Tenacity		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		
								(V0)	(T/m)	(lbs)	(kg)	(N)	(g/d)	(cN/dtex)						(%)	(%)
730	Colored		X		1000	1100	200	T0	X	18.4	8.4	82	8.0	7.1	14.9						
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						
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						
1W78*	SeaGard® Marine Overlay Finish		X		60000	66000			20	1146.0	520.4	5100	8.8	7.7	10.6						
1W81*	SeaGard® Marine Overlay Finish		X		1000	1100	192	V0		20.9	9.5	93	9.4	8.3	13.5	8.0					
					2000	2200	192	V0		41.2	18.8	185	9.4	8.3	15.0	8.0					
					60000	66000		20	1146.0	520.4	5100	8.8	7.7	10.6							
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		
					60000	66000		20	1146.0	520.4	5100	8.8	7.7	10.6							
1W70* (Non-AA)/ 1W73* (AA)	High Tenacity Standard Yarn		X		60000	66000			20	1146.0	520.4	5100	8.8	7.7	10.6						

AA = adhesive activated; V0 = intermingling with no twist; T0 = no twist, no intermingling; X = twisted on request
 *Other dtex available upon request (tow from 10,000 to 120,000 denier available)

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

U.S.: +1 800 486 0148
 Europe: +352 265 033 67
 China: +86 21 5228 5511
 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

www.performancefibers.com

OUR EXTENDED FAMILY OF PRODUCTS



automotive safety
coated fibers & fabrics
engineered reinforcements
geotextile & geogrid
narrow fabrics
offshore mooring
rope & cordage
sewing thread
single end cord
tire reinforcements
treated fabrics

specialty yarns:
multiplex
nylon 6
PBT
PEEK

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)