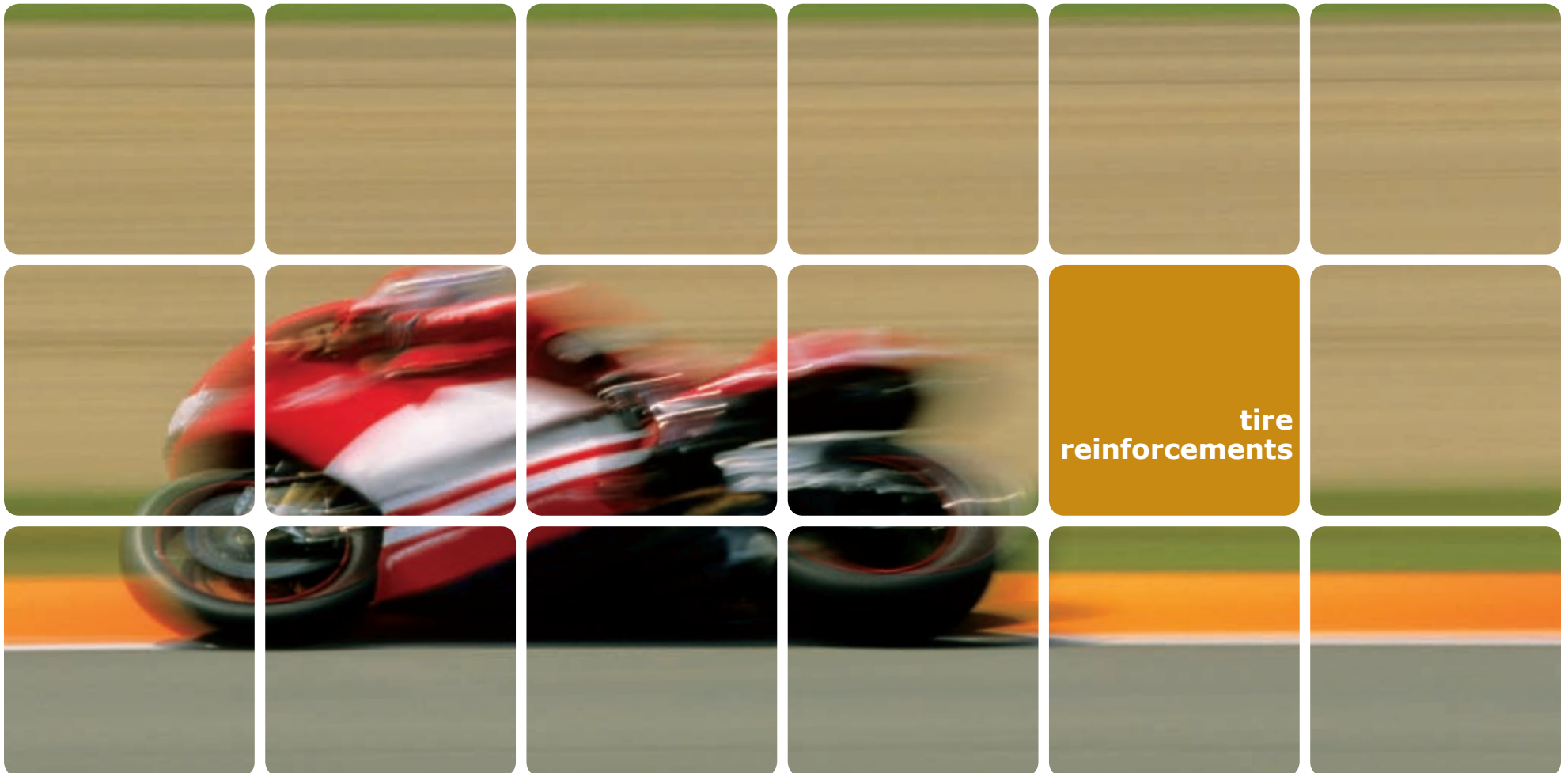


PRODUCT GUIDE: TIRE REINFORCEMENTS

SPEED, STRENGTH AND DURABILITY





TIRE REINFORCEMENTS: SPEED, STRENGTH AND DURABILITY

Since 1972, Performance Fibers has been a leader in the innovation, production, and fabrication of advanced materials for tires. Today, we remain committed to develop and produce some of the world's most advanced tire reinforcements. With manufacturing facilities in the U.S., Europe and Asia, we bring our customers around the world consistent, high quality materials, timely delivery and continuous technology improvements.

Applications include:

passenger cars; sport utility vehicles; light and medium trucks; motorcycles; agriculture vehicles; recreational vehicles; and sport racing cars.

FEATURES AND BENEFITS:

- DSP[®] fiber is a high modulus, low shrinkage product with good dimensional, thermal and chemical stability. This fiber can provide high-performance reinforcement with virtually no moisture absorption, high strength, squirm resistance and crisp handling
- Specifically designed for use as a cap ply, Beltec[®] fiber is designed for adhesion to rubber, good modulus, and low shrinkage. The result is a high-performance tire that can be both more durable and secure with better handling and less flat spotting
- Designed for especially demanding high performance needs, PenTec[®] fiber offers a unique balance of high modulus and strength as well as enhanced thermal properties

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

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 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

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Tire Reinforcements (Part 2)																																	
Product	Features/ Benefits	North America	Europe	Asia	Denier	Dtex	Filament Count	Intermingled				Breaking Strength		Tenacity		Elongation @ 54cN/tex	Elongation @ 45N (10 LBS)	Elongation @ 67N (15 LBS)	Elongation @ 89N (20 LBS)	Elongation @ break	Thermal Shrinkage 177°C-0.05gpd-2min	Hot Air Shrinkage 180°C-0.01gpd-15min	Free Shrinkage 177°C-0.01gpd-2min	Hot Air Shrinkage 177°C-zero load-30min	Max Testrite Shrinkage 172°C-0.06gpd-2min	Shrinkage Force 180°C	DPU	Twist					
								(V0)	(lbs)	(kg)	(N)	(g/d)	(cN/dtex)	(%)	(%)														(%)	(%)	(%)	(%)	(%)
792 (Non-AA)/ 793 (AA)	HMLS for Dimensional Stability	X			1000	1100	328	V0	17.7	8.1	79	8.0	7.1	4.7			10.0	3.8			5.9	7.0											
					1300	1440	420	V0	23.1	10.5	103	8.0	7.1	3.9			10.5	4.6			6.8	8.0											
					1500	1670	484	V0	26.6	12.1	118	8.0	7.0	3.4			10.3	4.9			7.2	8.4											
					2000	2200	492	V0	35.3	16.1	157	8.0	7.1	2.9			11.6	4.6			6.8	8.0											
					3000	3340	840	V0	52.3	23.7	233	7.9	7.0	1.8			11.2	4.1			6.2	7.3											
748 (AA)	HMLS for Dimensional Stability	X			1000	1100	200	V0	17.5	8.0	78	7.8	6.9	4.6			8.9	3.0			4.9	5.9											
					1300	1440	200	V0	22.9	10.4	102	7.8	6.9	3.8			9.5	2.9			4.8	5.7											
					1500	1670	300	V0	25.4	11.5	113	7.5	6.6	3.5			9.5	2.8			4.6	5.6											
					2000	2200	300	V0	34.4	15.6	153	7.7	6.8	2.3			9.5	2.3			4.0	4.9											
1X50 - 1100/2	HMLS Polyester Tire Fabric	X		X	2300						145					4.5				14.5	1.7			2.5				3.5	47.0				
	Polyester SEC			X	2300						145					4.5				14.5	1.7			2.5				3.5	47.0				
1X50 - 1440/2	HMLS Polyester Tire Fabric	X		X	3000						190					5.0				14.5	1.7			2.6				3.5	39.0				
	Polyester SEC			X	3000						190					5.0				14.5	1.7			2.6				3.5	39.0				
1X50 - 1670/2	HMLS Polyester Tire Fabric	X		X	3500						215						4.5			14.5	1.8			2.7				3.5	34.0				
	Polyester SEC			X	3500						215						4.5			14.5	1.8			2.7				3.5	34.0				
840/2	Nylon 6 Tire Fabric	X			2000						30.5	13.9	136				8.5							5.0		6.5		4.5	47.0				
1260/2	Nylon 6 Tire Fabric	X			2900						46.0	20.9	205					10.0						6.5		6.0		4.5	39.5				
1890/2	Nylon 6 Tire Fabric	X			4400						71.5	32.5	318					8.4						8.0		8.5		4.5	31.5				

AA = adhesive activated; V0 = intermingling with no twist

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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

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