

## Rope Fiber Selection Guide

	NYLON	POLYPRO	POLYESTER	COTTON	MANILA	SISAL
<b>STRENGTH:</b> Breaking Tenacity-Dry (Grams Per Denier)	7.5-9.5	6.0-6.5	6.5-8.5	2.0-3.0	5.0-6.0	4.0-5.0
<b>WEIGHT:</b> Specific Gravity Ability to Float	1.14 No	0.91 Floats	1.38 No	1.54 No	1.4 No	1.38 No
<b>ELASTICITY-STRETCH:</b> Elongation At Breaking Point	20-30%	15-25%	10-20%	5-12%	10-12%	10-12%
<b>WATER ABSORPTION:</b> Of Individual Fibers	Up to 9%	0%	Less than 1%	Up to 100%	Up to 100%	Up to 100%
<b>DEGRADATION:</b> Due to Aging (Per Year) Due to Sunlight(UV)	None Some Slight	None Significant	None Almost None	1% Some Slight	1% Some Slight	1% Some Slight
<b>THERMAL PROPERTIES:</b> Melting Point (Degrees Farenheit)	420-480°	330°	490-500°	Burns at 300°	Burns at 350°	Burns at 350°
<b>RESISTANCE:</b> Surface Abrasion Internal Wear Acids Alkalis Rot & Mildew Oils & Gas	Very Good Excellent Fair Excellent 100% Resistant Very Good	Good Very Good Excellent Excellent 100% Resistant Very Good	Excellent Excellent Very Good Good 100% Resistant Very Good	Poor Fair Poor Fair Poor Poor	Good Good Very Poor Poor Poor Fair	Fair Good Very Poor Poor Poor Fair