

# Mudfords

SUPPLIERS TO INDUSTRY, TRANSPORT AND CONSTRUCTION

## ROPE – PROPERTIES & FEATURES

	Abrasion Resistance	Creep Resistance	Water Absorption	Environmental Resistance	UV Resistance	Shrinkage When Wet	Knot Stability	Buoyancy	Exposure	
									Resistance to	Affected by
PP	Good	Fair	0	Good	Fair	0	Good	Floats	Acids, alkalis, organic solvents, rot and mildew	Chlorinated hydrocarbons
	Good shock absorption and retains shape. Ideal for slings, pulleys and lorry ropes.									
SI	Good	Excellent	100%	Poor	Good	<12.5%	Fairly good	Sinks	Alkalis and organic solvents (petroleum and oil)	Mineral acids, paints, detergents, chemical salts, fats, weathering, rot and mildew
	Poor shock absorption, but good handling in oily conditions and non-conductive. Ideal for slings, pulleys, capstans, fenders, lorry ropes, tug-o-war ropes, mining and general garden use.									
MA	Good	Excellent	100%	Poor – Fair	Good	<10%	Good	Sinks	Alkalis and organic solvents (petroleum and oil) **	Mineral acids, paints, detergents, chemical salts, fats, rot and mildew **
	Poor shock absorption, non-conductive, soft feel and smooth handling. Ideal for slings, lifting tackle, shipping and fishing.									
NY	Dry – Excellent Wet - Fair	Fair	<7%	Excellent	Very Good	<10%	Good	Sinks	Organic solvents, marine growth and mildew	Strong acids, oxidizing agents, soluble in formic and sulphuric acids and phenolic compounds
	Good shock absorption, soft feel and easy handling, but breaking strain reduced when wet. Ideal for slings, safety lines, camping and tow ropes.									
PE	Very Good – Excellent	Very Good	>2%	Excellent	Excellent	0	Good	Sinks	Most organic and mineral acids, organic solvents, bleaches, oxidizing agents and mildew	Alkalis, phenolic compounds, sulphuric acid
	Good shock absorption, soft feel and easy handling even when wet. Ideal for slings, safety lines, hoists, yachting and flagpoles.									
HE	Fair to Good	Excellent	100%	Poor – Fair	Good	Not known	Good	Sinks	Mould **	Rot **
	Good shock absorption, soft feel and doesn't burn the skin. Ideal for gym ropes, adventure parks, theatres and decoration.									
HE S	Fair	Fair	0	Good	Very Good	0	Good	Floats	Acids, alkalis, organic solvents, rot and mildew	Chlorinated hydrocarbons
	Good shock absorption and retains shape: Ideal for outdoor decoration.									
CO	Fair	Fair	100%	Poor	Good	Not known	Securely	Sinks	Not known	Not known
	Easy to handle and doesn't burn the skin. Ideal for livestock halters, circus apparatus and decoration.									

**Creep resistance** is the gradual extension over time under a tensile load (suspension ropes). **Environmental resistance** is to gasoline, diesel fuel, alcohol, vehicle exhausts and other chemicals.

\*\* Current standards show a contradiction, to be checked on next issue.

Twisted rope (stranded) has a tendency to flatten out under pressure and unravel when cut, unless securely sealed.  
Braided rope (plaited) is generally stronger than twisted rope and holds its shape better under pressure or when cut.

400 Petre Street  
Sheffield  
S4 8LU  
Tel: 0114 243 3033  
Fax: 0114 244 4536



Mudfords Ltd  
Sheffield  
Cert No 9407



Alverthorpe Road  
Wakefield  
WF2 9NT  
Tel: 01924 364 771  
Fax: 01924 291 725