

## TeraMax UHMWPE Rope - General Information

### CAUTIONS

#### Inspection and Retirement Checklist:

Any rope that has been in use for any period of time will show normal wear and tear. Some characteristics of a used rope will not reduce strength while others will. Listed below are normal conditions that should be inspected on a regular basis and a corrective action for the apparent characteristic.

- **Compression** - A visible sheen on rope, stiffness is reduced by flexing the rope. Not to be confused with melting. Compression is often seen on winch drum.  
**Cause:** Fibre Setting  
**Corrective Action:** Flex the rope (move it around) to remove compression as required
- **Pulled Strand** - Strand is pulled away from the rest of the rope. Strand is not cut nor compromised or otherwise damaged  
**Cause:** Snagging on equipment or surfaces  
**Corrective Action:** Work loose strand back into the length of the rope

When preparing the load, protect against:

- Trapping sling between or under loads
- Damage due to load turning in basket hitch
- Overloading sling and excessive sling leg angles
- Loading sling out of plain/side loading
- Wear by use of wear pads or other protection
- Point loading of hooks
- Exposure to fumes, vapours, sprays or mists of alkalis, ethers or concentrated sulphuric acid
- Exposure to temperatures in excess of 200°F
- General abuse

### SAFE OPERATING PRACTICES

- Know the working load limit of the equipment and tackle being used. Never exceed this limit. Check the tag supplied with each sling or assembly for information
- Determine the load weight before rigging it.
- Determine how the load is to be connected to the lifting point, as well as how the sling will grip or be attached to the load
- Sling must not be dragged on the floor, or over an abrasive area
- Sling shall not be tied into knots, or joined by knotting
- Sling must always be protected from being cut by sharp corners, sharp edges, protrusions or abrasive surfaces using wear protectors and/or "Nettech™" covering
- Inspect the sling before using it and destroy defective components. Discarded equipment may be accidentally used by someone not aware of the hazards and defects
- Never carry out any rigging or hoisting operation when the weather conditions are such that hazards to personnel, property or the public are created
- Stand clear of the lift
- Do not jerk the load

### CARE, MAINTENANCE & INSPECTION

When placing the sling into storage, the following should be considered and noted:

- Excessive wear in lifting eyes or in the body of a sling
- Signs of melting, charring, weld splatter or chemical damage
- Remove dirt and other foreign materials
- Knots
- Distortion, excessive pitting, corrosion or damage of any fitting or component
- Capacity tag to be legible and in tact
- Hang in clean, dry area and avoid entanglement
- Store away from exposure to sunlight
- All accessories used with the sling must be free of sharp edges
- Keep records of inspections including dates and conditions of sling
- Each day before being used, the sling and all attachments must be visually inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use where service conditions warrant. Damaged or defective slings must be immediately removed from service  
As per ANSI Std. B30.9 & OSHA

### ORDERING SLINGS

When placing an order for slings, please specify the following:

- Sling type (eye and eye or endless grommet)
- Number of legs
- Top assembly dimensions
- Sling capacity
- Sling length (measure pull to pull of reach in feet and inches)

## TeraMax UHMWPE Rope - Reference Chart

Size		Weight	Minimum Break Load	
<i>Inch</i>	<i>Metric</i>	weight lbs. /100 ft.	Ton	kN
3/16	5mm	1.0	2.9	28.9
1/4	6mm	1.55	4.2	41.2
5/16	8mm	2.62	6.7	65.7
13/32	10mm	3.96	10.8	105.9
7/16	11mm	5.0	11.7	116.57
15/32	12mm	6.38	16.5	161.9
9/16	14mm	8.6	22.0	215.8
5/8	16mm	10.75	27.5	269.8
23/32	18mm	13.98	35.0	343.4
13/16	20mm	17.13	41.5	407.1
7/8	22mm	20.49	50.0	490.5
15/16	24mm	24.06	58.0	569.0
1-1/32	26mm	27.55	66.0	674.5
1-1/8	28mm	31.25	74.0	725.9
1-3/16	30mm	34.94	81.5	799.5
1-1/4	32mm	38.3	88.5	868.2
1-7/16	36mm	45.69	104.0	1,020.2
1-9/16	40mm	56.44	127.0	1,245.9
1-3/4	44mm	68.54	152.0	1,491.1
1-7/8	48mm	81.31	179.0	1,756.0
2-1/16	52mm	94.75	206.0	2,020.9
2-1/4	56mm	109.53	236.0	2,315.2
2-3/8	60mm	117.59	252.0	2,472.1
2-1/2	64mm	134.39	282.0	2,766.4
2-11/16	68mm	151.86	316.0	3,100.0
2-7/8	72mm	170.68	348.0	3,413.9
3	76mm	190.16	387.0	3,796.5
3-5/32	80mm	210.32	422.0	4,139.8
3-5/16	84mm	231.83	465.0	4,561.7
3-7/16	88mm	254.67	503.0	4,934.4
3-13/16	96mm	303.05	588.0	5,768.3