

# CHECKMATE LIFTING SLING SAFETY CHART

This safety information chart has been provided by **CHECKMATE** in the interests of the health and safety at work of all employees and other persons who may from time to time use the equipment.

All persons having any contact whatsoever with webbing slings are instructed to read and put in to practice the information as shown in this safety chart. In the event of a query please contact:

**CHECKMATE**

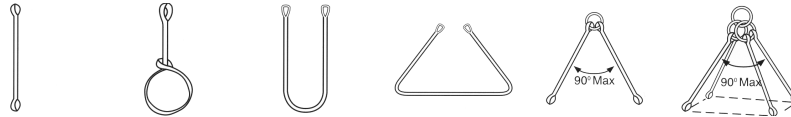
## RECOMMENDATIONS FOR THE INSPECTION OF SLINGS FOR DAMAGE

1. Examine the sling throughout its length for surface chafe, cuts in the webbing or selvages or the cover and core of roundslings. Examine stitching of seams and eyes. Examine end fittings for cracks or damage.
2. Chemical damage will show as local softening or powdering of the sling or its outer cover.
3. In case of cuts or significant abrasion or of any case of doubt, the sling should be taken out of service and the advice of the supplier sought.

## Rated Capacities for Webslings & Roundslings

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Duplex and Single Webslings



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Roundslings and Endless Webslings



Working Load limit (WLL) = Sling rating x Mode Factor (M*)		Straight Pull M*=1	Choke Hitch M*=0.8	Basket Hitch		Two Leg sling Max 90° M*=1.4	4 Leg Sling Max 90° M*=2
				Parallell M*=2	90° M*=1.4		
All loads in tonnes	<b>VIOLET 30</b>	1.0	0.8	2.0	1.4	1.4	2.0
	<b>GREEN 60</b>	2.0	1.6	4.0	2.8	2.8	4.0
	<b>YELLOW 90</b>	3.0	2.4	6.0	4.2	4.2	6.0
Factor of Safety for all Webslings & Roundslings is 7:1	<b>GREY 120</b>	4.0	3.2	8.0	5.6	5.6	8.0
	<b>RED 150</b>	5.0	4.0	10.0	7.0	7.0	10.0
Colour coding only applicable with E.U for industrial equipment	<b>BROWN 180</b>	6.0	4.8	12.0	8.4	8.4	12.0
	<b>BLUE 240</b>	8.0	6.4	16.0	11.2	11.2	16.0
	<b>ORANGE 300</b>	10.0	8.0	20.0	14.0	14.0	20.0
	<b>ORANGE 300</b>	12.0	9.6	24.0	16.8	16.8	24.0

## PRACTICAL ADVICE FOR THE SAFE USE AND MAINTENANCE OF TEXTILE SLINGS

1. Use only identified slings.
2. Do not use a damaged sling. Observable damage is the most reliable sign of weakness, particularly if a new sling is available for comparison.
3. Note the correct Safe Working Load for the mode use. (See Safety Chart).
4. If intensive use is to be made of a sling in choked hitch, protection at the point of choke is recommended. Allow the angle of choke to form naturally - do not force.
5. Never engage a textile sling with anything which may damage it. The lifting device, where it engages with the sling should be:-  
Smooth, without sharp edges.  
Of correct size so as to avoid excessive opening of the eyes or excessive loading of sewn parts.
6. Observe the following precautions:-  
(a) Ensure that the sling is suitable for the load to be lifted.  
(b) Do not drag loads when slung.  
(c) Do not lift with slings which are knotted or twisted.  
(d) In cases where contact with sharp edges is possible, make sure that protective sleeves or patches are provided and that they are correctly located.

- (e) Do not allow the sling to remain under load for longer than necessary.
- (f) Do not pull the sling from under the load when the load is resting on the sling.
- (g) Avoid snatch or shock loading.
- (h) Avoid eye opening angle of more than 20° (see 5)
- (i) Ensure that the included angles for 2-leg and 4-leg slings do not exceed 90 degrees
7. Ensure that the load will remain stable when lifted, and that when more than one sling is used for a single load, that the weight is properly distributed between the slings or sling legs.
8. If slings are to be used where contact with chemicals is possible, or other extreme conditions such as high temperatures may be encountered, please seek advice.
9. Store slings away from sources of ultraviolet radiation, (including sunlight) to avoid degradation.
10. Do not dry or store slings near a source of heat. Store them on a suitable rack in a free circulation of air.
11. Inspect slings before and during use. (see 2).
12. Never attempt to repair a damaged sling. In cases of doubt, return it to **CHECKMATE**

## POLYESTER

ACID	*
ALCOHOL	OK
ALDEHIDES	NO
STRONG ALKALIS	**
BLEACHING AGENTS	OK
DRY CLEANING SOLVENTS	OK
ETHERS	NO
HALOGENATED HYDROCARBONS	OK
HYDROCARBONS	OK
KETONES	OK
OIL, CRUDE	OK
OIL, LUBRICATING	OK
SOAPS & DETERGENTS	OK
WATER, SEAWATER	OK
WEAK ALKALIS	OK

\* Disintegrated by concentrated sulphuric acid  
\*\* Degraded by strong alkalis at high temp.

Polyester slings should be used whenever a minimum of stretch is required. They are unaffected by common acids and hot bleaching solutions.

Polyester slings must not be used with Sulphuric Acid or Alkalis. Not suitable for use at temperatures exceeding 200°C  
Stretch at rated capacity is 3% approx.

BS EN 1492-1: 2000 Websling  
BS EN 1492-2: 2000 Roundsling



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