



Operating Practices

Synthetic Round Slings

WARNING



- CAN FAIL IF DAMAGED, MISUSED OR OVERLOADED.
- INSPECT BEFORE USE.
- USE ONLY IF TRAINED.
- OBSERVE RATED LOAD.
- PAD EDGES OF LOAD TO AVOID DAMAGE TO SLING.
- AVOID EXPOSURE TO ACID, ALKALI, ULTRAVIOLET LIGHT, SUNLIGHT, AND TEMPERATURES OVER 180° F.
- DEATH OR INJURY CAN OCCUR FROM IMPROPER USE OR CARE.

RATED LOAD = RATED CAPACITY = WORKING LOAD LIMIT

SYNTHETIC ROUND SLINGS

INSTRUCTIONS FOR CARE, USE, INSPECTION AND REPAIR

CARE:

- Store Away From Possible Mechanical Damage, Corrosion, Dust, Grit, Extreme Temperatures, Sun And Any Ultraviolet Light Source.

USE:

- Check Weight Of Load.
- Check Tag To Confirm That Sling Is Rated Adequately For The Load (See Load Angle Chart).
- Sling Shall Not Be Twisted, Tied Into Knots Or Joined By Knotting.
- Shackles And Other Hardware Must Be Inspected And Padded If There Are Edges That Could Cut The Sling.
- Be Sure The Load Cant Cut The Sling During The Lift By Padding Corners, Edges, Protrusions Or Abrasive Surfaces; Use Materials Of Sufficient Strength And Thickness.
- Center Load On Base (Bowl) Of Hook Unless Sling Hook Is Designed For Point Loading.
- Balance The Load.
- Maintain Load Control.
- Avoid Jerking The Load.
- Be Alert For Snagging Of Load.
- Avoid Dragging Sling Over Rough Surfaces And From Under The Load.
- Choker Hitch Must Choke On Material, Never On End Fitting.
- Stand Clear Of Load At All Times.
- Persons Are Not To Ride On Sling Or Load.
- For Use In Abnormal Conditions Of Heat, Cold, Chemical Activity, Consult The Manufacturer.
- Round Slings Must Be Used With Compatible Fittings, Hooks And Shackles.
- Bunching Of Material Reduces Capacity.

INSPECTION:

- Before Each Use: Check Tag To Confirm That Sling Is Rated Adequately For The Load. Inspect Webbing For Knots, Worn Eyes, And Cuts, Fraying, Melted Or Charred Fabric, Ultraviolet Light Damage Or Chemical Damage. Inspect Hardware For Distorted, Cracked, Worn Fittings. If This Wear Or Damage Is Present, Even If Red Core Yarns Are Not Visible Or If Rated Load Tag Is Missing Or Illegible, Remove From Service And Repair Or Replace Sling. Frequent Inspection Is Done By The Person Handling The Sling Before Each Use And Must Include All Of The Before Use Items. Periodic Inspections Are Required At Least Annually For Normal Service, Quarterly Or More Frequently If In Severe Service Or Nearly Constant Use Periodic Inspections Are Performed By Designated Person Who Records The Observed Condition And Determines When Further Use Would Be Hazardous.

REPAIR:

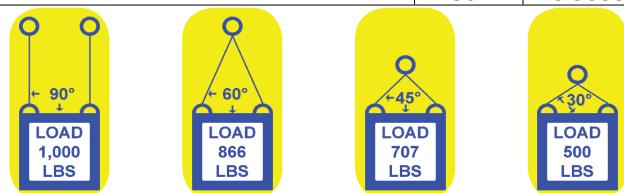
- Any Hazardous Condition Disclosed By An Inspection Shall Require Repair Or Replacement.
- Field Repair Is Not Permitted. Only Manufacturers Or Other Qualified Persons May Make Repairs.

LOAD ANGLE CHART

ANGLE	FACTOR
90°	1.0000
80°	0.9848
75°	0.9659
70°	0.9397
65°	0.9063
60°	0.8660
55°	0.8192
50°	0.7660
45°	0.7071
40°	0.6248
35°	0.5736
30°	0.5000

Angle factor must be applied to calculate the reduced sling capacity when lifting force is not at 90° to the plane of the load.

Multiply angle factor x sling's vertical rated load to calculate the reduced capacity at that angle.

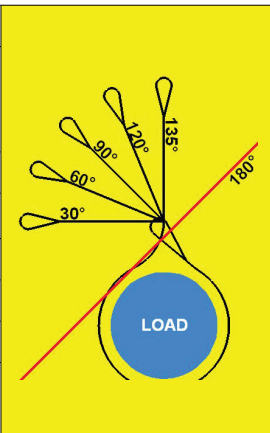


Because of the greatly reduced lifting capacity, use extra care when the sling to load angle, also known as the horizontal angle, is less than 45° and do not make lifts of less than 30° load angle. Example: a sling with adequate capacity could be broken because of increased tension resulting from angles of less than 30°. When possible, use longer slings to minimize angular tension by increasing the angle.

CHOKE ANGLE EFFECT

ANGLE OF CHOKE	RATED CAPACITY **
OVER 120°	100%
90°-120°	87%
60°-89°	74%
30°-59°	62%
0°-29°	49%

** PERCENT OF SLING RATED CAPACITY IN A CHOKER HITCH.



RATED CAPACITY OF SLING SHALL BE DECREASED WHEN D:d RATIO WILL BE SMALLER THAN THAT CITED IN THE LATEST REVISION OF ASME B30.9 CH2. CONSULT THE SLING MANUFACTURER FOR SPECIFIC DATA OR REFER TO THE WRTB WIRE ROPE SLING USER'S MANUAL.

GENERAL NOTE: WHEN D IS 25 TIMES THE COMPONENT ROPE DIAMETER (d) THE D:d IS EXPRESSED AS 25:1.

