

TUFLEX[®] Polyester Roundslings Standard Features

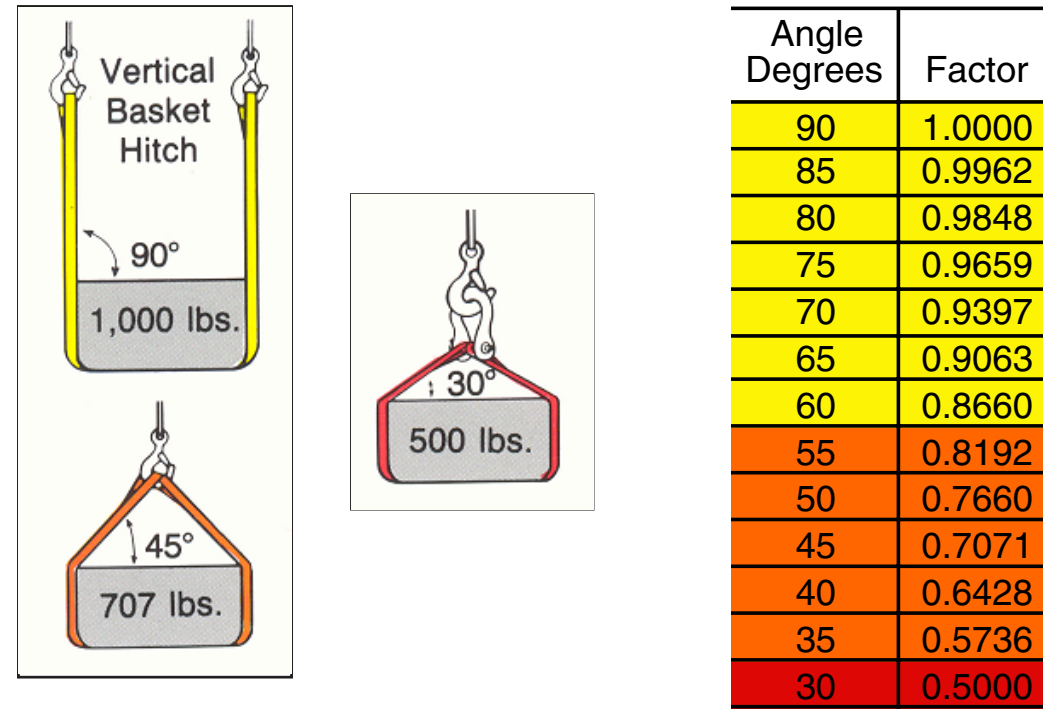
- Polyester load bearing core yarns
- Red core warning yarns
- Color coded capacities
- Low stretch polyester load yarns

Tuflex[®] Capacities and Measurements

Color	Endless Code	Rated Capacities (lbs.)			Min. Length (ft.)	Approx. Wt. (lbs./ft.)	Min. Hdwe. Dia. (in.)
		Vertical	Choker	Basket			
Purple	EN30	2,600	2,100	5,200	1 1/2	.2	1/2
Green	EN60	5,300	4,200	10,600	1 1/2	.3	5/8
Yellow	EN90	8,400	6,700	16,800	3	.5	3/4
Tan	EN120	10,600	8,500	21,200	3	.6	7/8
Red	EN150	13,200	10,600	26,400	3	.8	1
White	EN180	16,800	13,400	33,600	3	.9	1
Blue	EN240	21,200	17,000	42,400	3	1.3	1 1/4
Orange	EN280	25,000	20,000	50,000	3	1.5	1 1/4
Grey	EN360	31,000	24,800	62,000	3	1.7	1 1/2
Orange	EN460	40,000	32,000	80,000	3	2.2	1 3/4
Brown	EN600	53,000	42,400	106,000	8	2.8	1 3/4
Olive	EN800	66,000	52,800	132,000	8	3.4	2
Black	EN1000	90,000	72,000	180,000	8	4.3	2 1/2

Effect of Angle

When slings are used at an angle (i.e.—two slings or one sling in a basket attached to only one crane hook), sling capacity is reduced. How much it is reduced depends on the degree of the angle. You can determine whether a sling will be rated high enough if you know the angle between the sling leg and the horizontal. Once you know this angle, multiply the sling's rating by the appropriate factor in the table. This will give you the sling's reduced rating.



CHEMICAL ENVIRONMENT DATA AFFECTING TUFLEX[®]

General guide only. For specific temperature, concentration and time factors, please consult Lift-All prior to purchasing or use.

	Acids	Alcohols	Aldehydes	Strong Alkalis	Bleaching Agents	Dry Cleaning Solvents	Ethers	Halo-generated Hydro-Carbons	Hydro-Carbons	Ketones	Oils Crude	Oils Lubricating	Soap & Detergents	Water & Sea-water	Weak Alkalis
NYLON	NO	OK	OK	NO	NO	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
POLYESTER	*	OK	OK	**	NO	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

* Disintegrated by concentrated sulfuric acid. ** Degraded by strong alkalis at elevated temperatures.



Shared Benefits of Standard Tuflex[®] and KeyFlex[™] Roundslings

- Tuff-Tag[™] provides serial numbered identification for traceability
- Conforms to shape of load to grip securely
- Load bearing yarns protected from UV degradation
- Contrasting color of core yarns to protective jacket provides visual warning of sling damage
- Endless style promotes load stability by spreading sling legs
- Double wall cover on all sizes.
- Tuffhide nylon jacket on EN360 and larger Tuflex[®] and KEN60K and larger Keyflex[™].
- Easiest type of sling to inspect.

The Endless Advantage

- Wear points can be shifted to extend sling life
- Sling legs can be spread for improved balance
- The most flexible style of sling

Inspection Criteria (Tuflex[®] and Keyflex[™])

Remove from service when:

- Cuts to sling cover expose white with red marker core yarns for Tuflex or gold core yarns for Keyflex.
- Holes, tears, snags or abrasion expose core yarns
- End fittings are pitted or corroded, cracked, distorted or broken
- The sling shows signs of melting, charring or chemical damage
- Capacity tag is illegible or missing
- Other visible damage that causes doubt as to the strength of the sling

Promote Safety (Tuflex[®] and Keyflex[™])

- Synthetic materials won't cut hands
- Consistent matched lengths for better multiple sling control
- No loss of strength from abrasion to double walled jacket

Saves Time (Tuflex[®] and Keyflex[™])

- Independent core yarns choke tightly, but release easily after use
- Easy to Inspect

Saves Money (Tuflex[®] and Keyflex[™])

- Double wall cover on all sizes for greater sling life
- Soft cover won't scratch load surface
- Conforms to shape of load to reduce load damage
- Seamless – no sewn edges to rupture prematurely, requiring removal from service
- Tuffhide wear resistant nylon jacket for extra sling life standard on EN360 and larger Tuflex[®] and Keyflex[™] KEN60K and larger
- Tuff-Tag provides required OSHA information for life of the sling, not just the life of the tag
- Wear points can be shifted to extend sling life
- Endless version is the most versatile style of sling
- Tuflex and Keyflex[™] Roundslings with damaged covers may be returned to our factory for inspection and possible repair and proof test.

KEYFLEX[™] Aramid Roundslings Standard Features

- Lowest weight per capacity reduces risk of back and other injuries to riggers.
- Low stretch (1% at rated capacity) reduces elastic bounce for better load control - allows for use in most low headroom situations - reduces sling and load abrasion.
- Aramid load yarns allow sling use up to 350° F versus 200° F for other synthetics.
- Lightweight and compact size promotes speedier rigging, transport and storage when compared to any other type of sling.

Comparataive Sling Weights for 20 Ft. Long Slings

On the average, KeyFlex [™] Roundslings are:	Sling Type	Vert. Rating	Weight
• 53% lighter than Tuflex [®] Roundslings,	KeyFlex [™]	90,000 lbs.	42 lbs.
• 82% lighter than Wire Rope Slings,	Tuflex [®]	90,000 lbs.	86 lbs.
• 89% lighter than G80 Chain Slings	Wire Rope	88,000 lbs.	357 lbs.
	Chain	72,300 lbs.	358 lbs.

Environmental Considerations for KEYFLEX[™]

- CHEMICAL - Do not use in a chemical environment without first contacting the Lift-All engineering department at 717-898-6615. Please provide specific chemical, concentration, temperature and time factors.
- TEMPERATURE –KeyFlex[™] are approved for use up to 350° F.

KeyFlex[™] Capacities and Measurements

KeyFlex [™] Code	Rated Capacities (lbs.)			Min. Length (ft.)	Approx. Wt. (lbs./ft.)	Min. Hdwe. Dia. (in.)
	Vertical	Choker	Basket			
KEN10K	10,000	8,000	20,000	3	.3	7/8
KEN15K	15,000	12,000	30,000	3	.5	1
KEN20K	20,000	16,000	40,000	3	.6	1 1/4
KEN25K	25,000	20,000	50,000	3	.7	1 3/8
KEN30K	30,000	24,000	60,000	8	.8	1 1/2
KEN40K	40,000	32,000	80,000	8	1.0	1 1/2
KEN50K	50,000	40,000	100,000	10	1.2	1 3/4
KEN60K	60,000	48,000	120,000	10	1.5	2
KEN70K	70,000	56,000	140,000	10	1.7	2 1/2
KEN80K	80,000	64,000	160,000	10	1.8	2 1/2
KEN90K	90,000	72,000	180,000	10	2.1	2 1/2
KEN100K	100,000	80,000	200,000	10	2.6	2 1/2
KEN125K	125,000	100,000	250,000	10	3.0	3
KEN150K	150,000	120,000	300,000	10	3.5	3 1/2
KEN175K	175,000	140,000	350,000	10	4.0	3 1/2
KEN200K	200,000	160,000	400,000	10	4.5	3 1/2

- WARNING: These products may contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

