

ENVIRONMENTAL CONSIDERATIONS

Exposure to sunlight and other environmental factors can result in accelerated deterioration of web slings. The rate of this deterioration varies with the level of exposure and with the thickness of the sling material.

Visible indication of such environmental deterioration can include the following:

- Fading of webbing color.
- Uneven or disoriented surface yarn of the webbing.
- Shortening of the sling length.
- Reduction in elasticity of the sling.
- Accelerated abrasive damage to the surface yarns of the sling.
- Breakage or damage to yarn fibers is often evident by a fuzzy appearance on the web.
- Stiffening of the web.

Anti-Abrasion Treatment

Lift-All webbing is treated for abrasion. Heavy duty treatments are available as a supplemental process for greater protection. Natural, untreated webbing is available upon request.

Elasticity

The stretch characteristics of web slings depends on the type of yarn and the web treatment. Approximate stretch at rated sling capacity:

| NYLON | | POLYESTER | |
|-----------|-----|-----------|----|
| Treated | 10% | Treated | 7% |
| Untreated | 6% | Untreated | 3% |

TOLERANCES FOR WEB SLINGS

| Sling Type | Length Tolerance* |
|---------------|---------------------------------|
| 1-Ply | ± (1.5" + 1.5% of sling length) |
| 2-Ply | ± (2.0" + 2% of sling length) |
| 3-Ply & 4-Ply | ± (3.0" + 3% of sling length) |

* For web sling widths wider than 6", add 1/2" to these values. For tighter tolerance or matched set lengths, please consult with Customer Service prior to ordering.

Sunlight / UV Exposure Service Life

Nylon and polyester web slings possess a limited useful service life due to the degradation caused by exposure to sunlight or other measurable sources of UV radiation.

Lift-All web slings that are regularly exposed to UV radiation should be identified with the date they are placed into service and should be proof-tested to twice their rated capacity every six months.

Lift-All nylon and polyester web slings shall be permanently removed from service when the cumulative UV or outdoor exposure has reached these limits:

- 2 years: 1-Ply and 2-Ply web slings
- 3 years: 3-Ply and 4-Ply web slings

Temperature

Nylon and polyester slings degrade at temperatures above 200°F.

Chemical Environment Data

Many chemicals have an adverse effect on nylon and polyester. The chemical chart below is a general guide only. For specific temperature, concentration and time factors, please consult *Lift-All* prior to purchasing or use.

| CHEMICAL | NYLON | POLYESTER |
|---------------------------|-------|-----------|
| Acids | NO | OK* |
| Alcohols | OK | OK |
| Aldehydes | OK | NO |
| Alkalis | OK | NO |
| Bleaching Agents | NO | OK |
| Dry Cleaning Solvents | OK | OK |
| Ethers | OK | OK |
| Halogenated Hydro-Carbons | OK | OK |
| Hydro-Carbons | OK | OK |
| Ketones | OK | OK |
| Oils Crude | OK | OK |
| Oils Lubricating | OK | OK |
| Soap & Detergents | OK | OK |
| Water & Seawater | OK | OK |
| Weak Alkalis | OK | OK |

* Disintegrated by concentrated sulfuric acid.

Prior to sling selection and use, review and understand the General Information section of this catalog.

- General Information
- Web Slings
- Round Slings
- Sling Protection
- Wire Rope
- Chain Slings
- Rigging Hardware
- Mesh Slings
- Load Huggers
- Tow Products
- Lift-All* Hoists
- Hoist Rings
- Plate Clamps
- Lifting Devices