



WEISSENFELS

Care, use and inspection of WEISSALLOY Chain Slings

Inspection:

1. Before use inspect all chain slings.
2. First clean the sling in order to spot defects more easily.
3. Hang the sling vertically and measure the reach from bearing to bearing.
4. Compare the actual length of the sling with the reach stamped on the sling chain identification tag.
5. Check link by link and all attachments for:
 - excessive corrosion
 - spread in throat openings of hooks
 - cracks, bent or twisted links, gouges and wear
6. The maximum allowable wear is as follows:

CHAIN SIZE INCHES	ACTUAL STOCK DIAMETER SIZE IN INCHES	MINIMUM ALLOWABLE DIAMETER IN INCHES
9/32	0.281	0.234
3/8	0.394	0.296
1/2	0.512	0.391
5/8	0.629	0.484
3/4	0.787	0.594
7/8	0.866	0.692

Use:

1. Take note of the heat conditions which reduce the working load limits.

Temperature of Chain	Working Load Limit Reduction when Chain Heated	Permanent Working Load Limit Reduction after Cooling
500°F	None	None
600°F	10%	None
700°F	20%	None
800°F	30%	None
900°F	40%	10%
1000°F	50%	15%

2. Study the load you want to lift and determine Weight of Load, Center of Gravity, Angle of Lift, How to Balance Load (Are Pads needed to protect Chain from sharp corners?)
3. Select proper sling size and type. See this catalog for the WORKING LOAD LIMITS which must NEVER be EXCEEDED and which determine the chain size you

need. Select the attachments which are best suited in terms of design. Match the attachments to the chain size you have determined you need.

4. Remove any twists, kinks or knots in the sling.
5. Balance your load also insuring that hooks or end attachments are properly inserted into the load.
6. Avoid jerking the sling when lifting

Care of Slings:

1. Store slings in a dry area. If you do not plan on reusing them for an extended period of time lightly oil them before storing.
2. Hang slings vertically on an A-frame
3. NEVER anneal Weissalloy sling chains

Sling Identification Tags:

Identification Tags are attached to every sling chain. The registration number of the sling, the original reach, the sling type, and the working load limit at a prescribed angle are all included on the tag,

Test Certificates:

A certificate of performance is issued with every sling chain shipment. This certifies that the chain and attachments have all been subjected to rigid testing requirements at time of manufacture such as proof testing, checks for dimensional accuracy, Brinell hardness tests, and random breaking tests.

