

Working Load Limits according to the standard (Uniform Load) method of rating

Factor of Safety		1-leg chains		2-leg chains				3- and 4-leg chains		Endless chain	Basket chains	
<b>4</b>												
Working angles		-	-	0° to 45°	45° to 60°	0° to 45°	45° to 60°	0° to 45°	45° to 60°	-	0° to 45°	0° to 45°
Load factor		1	0.8	1.4	1	1.12	0.8	2.1	1.5	1.6	1.4	2.1
Code	d	Working Load Limit [tonnes]										
WIN 5	5	1.00	0.80	1.40	1.00	1.12	0.80	2.00	1.50	1.60	1.40	2.00
WIN 6	6	1.40	1.12	2.00	1.40	1.60	1.12	3.00	2.12	2.24	2.00	3.00
WIN 7	7	1.90	1.50	2.65	1.90	2.12	1.50	4.00	2.80	3.00	2.65	4.00
WIN 8	8	2.50	2.00	3.55	2.50	2.80	2.00	5.30	3.75	4.00	3.55	5.30
WIN 10	10	4.00	3.15	5.60	4.00	4.25	3.15	8.00	6.00	6.30	5.60	8.00
WIN 13	13	6.70	5.30	9.50	6.70	7.50	5.30	14.00	10.00	10.60	9.50	14.00
WIN 16	16	10.00	8.00	14.00	10.00	11.20	8.00	21.20	15.00	16.00	14.00	21.20
WIN 19	19	14.00	11.20	20.00	14.00	16.00	11.20	30.00	21.20	22.40	20.00	30.00
WIN 22	22	19.00	15.00	26.50	19.00	21.20	15.00	40.00	28.00	30.00	26.50	40.00
WIN 26	26	26.50	21.20	37.50	26.50	30.00	21.20	56.00	40.00	42.50	37.50	56.00
Ni 26 G8	26	21.20	16.95	30.00	21.20	23.70	16.95	45.00	31.50	33.50	30.00	45.00
Ni 32 G8	32	31.50	25.20	45.00	31.50	35.20	25.20	67.00	47.50	50.00	45.00	67.00

If the chain slings are to be used in more demanding conditions (e.g. high temperature, asymmetric load distribution, edge load, impact/shock loads) the maximum load capacity values in the table above must be reduced by the load factors below.

Temperature	-40° to 200°C		above 200° to 300°C		above 300° to 380°C	
Load factor	Winner 200	1	not permissible		not permissible	
	Winner 400	1	0.9		0.75	
Asymmetric load distribution						
Angle of spread	0° to 45°	45° to 60°	0° to 45°	45° to 60°	0° to 45°	45° to 60°
Load factor	0.7	1	0.7	1	0.7	0.7
Edge loading	R = larger than 2x chain Ø		R = larger than chain Ø		sharp, hard edges	
Load factor		1		0.7		0.5
Shock	slight shocks		medium shocks		strong shocks	
Load factor	1		0.7		not permissible	

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