NORTHERNSSTRANDS

WIRE ROPE SLINGS

CHAIN SLINGS

WORKING LOAD LIMITS IN POUNDS*														
SIZE	OF	TYPES OR C	DOUBL	LE BRANCH T	YPE D									
CHAIN								â		{				
F		-90°	60%	450	305	- 60°	45°	30°	DIA.					
NCHES	MM.	POUNDS LIFT WHEN USED AT SINGLE 60° ANGLE		POUNDS LIFT WHEN USED AT 45° ANGLE	POUNDS LIFT WHEN USED AT 30° ANGLE	TRIPLE/QUAD 60° ANGLE	TRIPLE/QUAD 45° ANGLE	TRIPLE/QUAD 30° ANGLE	1/4"	1.3				
⁹ /32"	7.0	3,500	6,100	4,900	3,500	9,100	7,400	5,200	5 (1)	1,0				
⁵ ⁄16"	8.0	5,700	9,900	8,100	5,700	14,800	12,100	8,500	⁹ ⁄16 ^{°°}	2,0				
³ /8"	10.0	7,100	12,300	10,,000	7,100	18,400	15,100	10,600	³ /8″	2,8				
1⁄2″	13.0	12,000	20,800	17,000	12,000	31,200	25,500	18,000	7⁄16″	3,8				
⁵ /8"	16.0	18,100	31,300	25,600	18,100	47,000	38,400	27,100	1/-"	5.0				
³ /4″	20.0	28,300	49,000	40,000	28,300	73,500	60,000	42,400	72	5,0				
⁷ ⁄8"	22.0	34,200	59,200	48,400	34,200	88,900	72,500	51,300	⁹ ⁄16"	6,4				
1"	26.0	47,700	82,600	67,400	47,700	123,900	101,200	71,500	5/8"	7,8				
1 ¼"	32.0	72,300 125,200		10,2200	72,300	187,800	153,400	108,400	3/,"	11 1				
	NOTE: DESIGN FACTOR = 4:1 WARNING: DO NOT EXCEED RATED CAPACITIES													
			GRA	JE 100 C	HAIN SL	INGS			1/8"	15,2				
			WOR	KING LOAD L	IMITS IN POUR	NDS*			1"	19,0				
SIZE	E OF RIN	TYPES OR C	DOUBI	LE BRANCH T	YPE D				1 ½	24,				
£}					\sim	- 60°	45°	30°	1 1⁄4"	30,				
		90°	600	450	308				1 ³⁄8"	36,				
		POUNDS LIFT WHEN USED	POUNDS LIFT WHEN USED AT	POUNDS LIFT WHEN USED AT	POUNDS LIFT WHEN USED AT	TRIPLE/QUAD	TRIPLE/QUAD	TRIPLE/QUAD	1 ½"	42,				

2,700

4,300

8,800

15,000

22,600

35,300

42,700

59,700

90,400

RATED CAPACITY IN POUNDS											WEB SLINGS (POLYESTER OR NYLON)														
	-			BASKET AND 2 LEG BRIDLES			3 LEG BRIDLES			EYE DIMENSIONS (APPROXIMATE)			WEB WIDTH	Single I PLY Sling	RATED CAPA		ITIES IN WEB WIDTH		DOUBLE RAT	RATED (ED CAPACITIES IN LBS.				
0°		8	Ĵ	Ϋ́	*				\mathbf{x}			WIDTH	LENGTH INCHES		1"	EE1 901	VERTICAL	снокея 1,280	вязкет 3,200	1"	ND. EE2 901	VERTICAL	CHOKER	вязкет 6,200	
	DIA.	0	O		3 0°	45°	¥60°		3 0°	45°	▲ 60°			TYPE 3 Flat Eyes	2"	EE1 902	3,100	2,480	6,200	2"	EE2 902	6,200	4,960	12,400	
		VERTICAL	CHOKER HITCH	VERTICAL BASKET	30°	45°	60	VERTICAL	30°	45°	60°	A	в		3"	EE1 903	4,700	3,760	9,400	3"	EE2 903	8,800	7,040	17,600	
	1⁄4"	1,300	960	2,600	1,300	1,820	2,200	3,800	1,940	2,800	3,400	2	4	\sim	4" 5"	EET 904	6,200	4,960	12,400	4" 5"	EE2 904	11,000	8,800	22,000	
	⁵ ⁄16"	2,000	1,480	4,000	2,000	2,800	3,400	6,000	3,000	4,200	5,200	2 1/2	5	TYPE 4 Twisted Eyes	ວ 6"	EE1 905	7,800	6,240	15,600	ວ 6"	EE2 905	13,700	10,960	27,400	
	3/8"	2,800	2,200	5,800	2,800	4,000	5,000	8,600	4,400	6,000	7,400	3	6		0 8"	EE1 900	9,300	9,440	23 500	0 8"	EE2 900	22 750	13,200	45 500	
	7⁄16″	3,800	2,800	7,800	3,800	5,400	6,800	11,600	5,800	8,200	10,000	3 1/2	7		10"	EE1 900	14 700	9,400 11 760	29,300	10"	EE2 900	22,730	22 720	56 800	
	1/2"	5.000	3,800	10.200	5.000	7.200	8.800	15.200	7.600	10.800	13.200	4	8		12"	EE1 912	17.650	14.120	35.300	12"	EE2 912	34,100	27.280	68.200	
	⁹ /16"	6,400	4.800	12.800	6,400	9.000	11.000	19.200	9.600	13.600	16.600	4 1/2	9		1"	EN1 901	32,00	2,550	6,400	1″	EN2 901	6,200	4,950	12,400	
1	5/8"	7800	5 800	15 600	7800	11 000	13 600	24 000	11 800	16 600	20,000	5	10	TYPE 5 Endless Slings	2"	EN1 902	6,200	4,950	12,400	2"	EN2 902	12,400	9,900	24,800	
	3/4"	11 200	8 200	22 000	11 200	15,800	19 400	34,000	16,800	24,000	30,000	6	12		3"	EN1 903	9,400	7,500	18,800	3"	EN2 903	17,600	14,050	35,200	
	7/_"	15 200	11 200	22,000	15 200	22,000	26,000	46,000	22,000	27,000	40,000	7	11	- REACH	4"	EN1 904	12,400	9,900	24,800	4"	EN2 904	22,000	17,600	44,000	
	/8	10,200	11,200	30,000	10,200	22,000	20,000	40,000	22,000	32,000	40,000	/	14		5"	EN1 905	15,600	12,450	31,200	5"	EN2 905	27,400	21,900	54,800	
		19,600	14,400	40,000	19,600	28,000	34,000	58,000	30,000	42,000	52,000	8	16		6"	EN1 906	18,600	14,850	37,200	6"	EN2 906	33,000	26,400	66,000	
	1 1⁄8″	24,000	18,200	48,000	24,000	34,000	42,000	/2,000	36,000	52,000	62,000	9	18		NOTE: DESIGN FACTOR = 5:1 WARNING: DO NOT EXCEED RATED CAPACITIES										
0°	1 1⁄4″	30,000	22,000	60,000	30,000	42,000	52,000	88,000	44,000	62,000	76,000	10	20	POLYESTER ROUND SLINGS											
	1 ³⁄8"	36,000	26,000	72,000	36,000	50,000	62,000	106,000	54,000	76,000	92,000	11	22			TABL	E 1: RATE) CAPAC	ITY FOR F	POLYES	FER ROUND	SLINGS	í	1	
	1 1⁄2"	42,000	32,000	84,000	42,000	60,000	74,000	126,000	64,000	90,000	110,000	12	24								¢ ¢				
	1 ⁵⁄s"	48,000	36,000	98,000	48,000	70,000	84,000	146,000	74,000	104,000	126,000	13	26												
	1 ³⁄4"	56,000	42,000	114,000	56,000	80,000	98,000	170,000	84,000	120,000	148,000	14	28	Round S	lings										
1	2″	74,000	56,000	146,000	74,000	104,000	126,000	220,000	110,000	156,000	190,000	16	32	51227	# C	OLOR*	* POUNDS		POUNDS		POUNE	DS	POU	INDS	
	2 1⁄4"	88,000	70,000	178,000	88,000	126,000	154,000	266,000	134,000	188,000	232,000	18	36	NS3	3 F	Purple	3,000		2,400)0 6,00		0 4,200		200	
	2 1⁄2"	108,000	84,000	218,000	108,000	154,000	188,000	326,000	164,000	230,000	282,000	20	40	NS4	1	Black	4,000		3,200)	8,000)	5,600		
	2 ³⁄4"	130,000	102,000	260,000	130,000	184,000	226,000	390,000	194,000	276,000	338,000	22	44	NSE	$\frac{5}{2}$	Green	6,000		4,800)	12,00		8,4	100	
	3"	, 154.000	120.000	306.000	154.000	216.000	266.000	460.000	230.000	324.000	398.000	24	48	NS1	2	Tan	9,000		9,200)	24.00	0	12,0	800	
	-	NOTE: DESIGN FACTOR = 5:1 WARNING: DO NOT EXCEED RATED CAPACITIES									NS14	4	Red	14,000		11,200)	29,00	0	10,	600				
RATED CAPACITIES BASKET HITCH BASED ON D/D RATIO OF 25/1.												NS1	7 C	Drange	17,000		13,600	C	34,000		23,800				
RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN 1/2 NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER. HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES SHALL NOT BE USED.													NS2	3	Blue	23,000)	18,400	C	46,000 32,200		200			
RATED CAPACITIES SHOWN APPLY ONLY TO 6 X 19 AND 6 X 37 EXTRA IMPROVED PLOW STEEL (EIPS) IWRC CLASSIFICATION WIRE ROPE. ALWAYS REFER TO ASME B30.9 USE IN REGARDS TO PROPER INSPECTION AND REJECTION CRITERIA FOR SLINGS.												NS2	6 C	Drange	26,000)	20,80	0	52,00	0	36,	400			
WARNING!											— 1 I	NS3	2	Grey	32,000		25,60		64,00	0	44,	800			
WIRE ROPE WILL FAIL IF WORN-OUT, OVERLOADED, MISUSED, DAMAGED, IMPROPERLY MAINTAINED OR ABUSED. WIRE ROPE FAILURE MAY CAUSE SERIOUS INJURY OR DEATH! PROTECT YOURSELF AND OTHERS. ALWAYS											NS5	4	Brown	54 000)	43.200	0	108.00		- 75	600				
											NS6	8	Olive	68.000)	54.40	0	136.00		0 95,200					
	IN 11	SPECT WI	RE ROPE F	OR WEAR,	DAMAGE O	R ABUSE BE	FORE USE	. NEVER FR			x	()		NS9	0	Black	90,000)	72,00	0	180,00	0	12,6	000	
	USE WIRE ROPE THAT IS WORN-OUT, DAMAGED OR ABUSED, NEVER											\ /			N/			E-1 \A/A							

INFORM YOURSELF:

READ AND UNDERSTAND MANUFACTURER'S LITERATURE OR "WIRE ROPE AND WIRE ROPE SLING SAFETY BULLETIN". REFER TO APPLICABLE CODES, STANDARDS AND REGULATIONS FOR INSPECTION REQUIREMENTS AND REMOVAL CRITERIA

* FOR ADDITIONAL INFORMATION OR THE BULLETIN. ASK YOUR EMPLOYER OR WIRE ROPE SUPPLIER.



CERTIFIED

(306)-384-8593

NORTHERN STRANDS (306)-242-7073

NORTHERN STRANDS ASSUMES NO RESPONSIBILITY FOR THE MISUSE OR WITH THE EXPRESS UNDERSTANDING THAT THE PURCHASER AND/OR USER ARE THOROUGHLY FAMILIAR WITH THE CORRECT APPLICATION AND PROPER USE. WARNINGS AND DEFINITIONS ARE PROVIDED AS AN AID TO THE USER IN UNDERSTANDING CORRECT APPLICATION AND PROPER USE. WORKING LOAD LIMIT - REFERS TO THE MAXIMUM LOAD (RATED CAPACITY) THAT SHALL BE APPLIED TO THE CHAIN SLING. REFER TO WORKING LOAD LIMIT CHART.

FOLLOWING INFORMATION: • GRADE • SIZE • REACH • TYPE THE MANUFACTURER DOES NOT ACCEPT ANY LIABILITY FOR DAMAGES WHICH RESULT FROM THE SLING BEING USED IN EXCESS OF THE WORKING LOAD LIMIT OR FROM ABUSE

CARE

NOTE: DESIGN FACTOR = 4:1 WARNING: DO NOT EXCEED RATED CAPACITIES

THE LIFE AND STRENGTH OF GRADE 80 AND GRADE 100 SLINGS DEPEND ON PROPER USE, MAINTENANCE AND INSPECTION. REFER TO ASME B30.9 AND OSHA REGULATIONS FOR ADDITIONAL INFORMATION. ALWAYS REFER TO ASME B30.9 IN REGARDS TO PROPER INSPECTION AND REJECTION CRITERIA FOR SLINGS.

3,800

6.100

12,400

21,200

32,000

49,900

60,400

84,400

127,800

4,700

7.400

15,200

26,000

39,100

61,100

74,000

103,400

156,600

7⁄32″ 5.5

⁹/₃₂" 7.0

³/8″ 10.0

1⁄2″ 13.0

5⁄8″ |16.0 |

3⁄4″ 20.0

1″ 26.0

1 1⁄4″ 32.0

22.0

7⁄8″

USE

MATERIALS.

SLING IDENTIFICATION TAG.

THE CHAIN WILL HOLD:

OVERLOADING

SUPPORT LOAD.

LIMIT OF THE CHAIN.

SERIAL NUMBER

2,700

4.300

8,800

15,000

22.600

35,300

42,700

59,700

90,400

USE, CARE & INSPECTION OF GRADE 80 AND GRADE 100 CHAIN SLINGS

OBSERVING THE FOLLOWING PRECAUTIONS WHEN USING

1. INSPECT CHAIN SLINGS BEFORE USE AS INDICATED IN INSPECTION SECTION.

* ANY OF THE FOLLOWING FACTORS CAN LOWER THE LOAD

WILL DECREASE REFER TO WORKING LOAD LIMIT CHART

• TWISTING, KNOTTING AND KINKING SUBJECTS LINKS TO

UNDESIRABLE LOADING WHICH DECREASES THE WORKING

LOAD LIMIT OF THE SLING. • CONDITIONS OTHER THAN THAT FOR WHICH SLINGS ARE

INTENDED CAN REDUCE THE WORKING LOAD LIMIT OF THE

SLING. FOR EXAMPLE, USE AT ELEVATED TEMPERATURES

4. CENTER LOAD IN HOOK(S), HOOK LATCHES MUST NOT

5. AVOID SUDDEN JERKS WHEN LIFTING AND LOWERING. BALANCE ALL LOADS, AVOID TIPPING OF LOADS.
USE PADS AROUND SHARP CORNERS.

WILL RESULT IN A REDUCTION IN WORKING LIMIT.

B. FREE ALL TWISTS, KNOTS AND KINKS.

10. USE ONLY GR. 80 AND 100 ALLOY CHAIN.

8 DON'T DROP LOAD ON CHAINS

RAPID LOAD APPLICATION CAN PRODUCE DANGEROUS

CHAIN SLINGS REQUIRE PROPER CARE AS FOLLOWS CHAIN SLINGS WILL HELP PROTECT BOTH OPERATORS AND

. STORE SLINGS IN A CLEAN, DRY PLACE. 2. AVOID CORROSION, OIL CHAINS BEFORE PROLONGED STORAGE

3. NEVER ALTER THE THERMAL TREATMENT OF GR. 80 AND 100 CHAIN BY HEATING. 4. DO NOT PLATE OR CHANGE SURFACE FINISH OF SLING. CONTACT NORTHERN

7,000

11,200

22,900

39,000

58,700

91,700

110,900

155,100

234,900

5,700

9.100

18,700

31,800

47,900

74,900

90,600

126,000

191,700

4,000

6,400

13,200

22,500

33,900

53,000

64,000

89,550

135,600

2. DO NOT EXCEED WORKING LOAD LIMIT AS INDICATED ON STRANDS FOR SPECIAL REQUIREMENTS.

INSPECTION IT IS IMPORTANT TO INSPECT CHAIN SLINGS REGULARLY AND TO KEEP A RECORD OF EACH CHAIN INSPECTION. THE FOLLOWING IS A GUIDE FOR SUCH AN INSPECTION PROCEDURE. NORTHERN STRANDS WILL SUPPLY SLING RECORD CARDS OR SHEETS AS REQUESTED. BEFORE INSPECTING, CLEAN THE CHAIN SLING VARIATION IN THE ANGLE OF THE LOAD TO THE SLING. AS
SO THAT MARKS, NICKS, WEAR AND OTHER DEFECTS CAN BE SEEN. USE A NONTHE ANGLE DECREASES, THE WORKING LOAD OF THE SLING
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SO THAT MARKS, BE INDIVIDUALLY

INSPECTED FOR THE FOLLOWING CONDITIONS:

1. TWISTS OR BENDS NICKS OR GOUGES

3. EXCESSIVE WEAR AT BEARING POINTS. REFER TO WEAR ALLOWANCE CHART.

A STRETCH 5. DISTORTED, WORN OR DAMAGED MASTER LINKS, COUPLING LINKS, OR

ATTACHMENTS, ESPECIALLY SPREAD IN THROAT OPENING OF HOOKS, EACH LINK OR COMPONENT HAVING ANY CONDITION LISTED ABOVE IS TO BE MARKED WITH PAINT TO PLAINLY INDICATE REJECTION AND REMOVED FROM SERVICE UNTIL PROPERLY REPAIRED.

NOTE:

MISAPPLICATION OF ANY OF ITS PRODUCTS, PRODUCTS ARE PROVIDED. SELECT ATTACHMENTS SUCH AS HOOKS OR RINGS FOR USE WITH CHAIN TO MATCH THE SIZE AND WORKING LOAD * THE IDENTIFICATION TAG IS FOUND ON THE MASTER COUPLING LINK OF EACH CHAIN SLING AND CONTAINS THE WORKING LOAD LIMIT (AT A SPECIFIC ANGLE OF LIFT) •

NSX NORTHERN STRANDS GROUP OF COMPANIES

(OFORTIS

(306)-242-4427

SYNTHETIC SLINGS

NOTE: DESIGN FACTOR = 5:1 WARNING: DO NOT EXCEED RATED CAPACITIES

FOR LARGER CAPACITIES PLEASE INQUIRE

CAUTION - COLOR CODE AND RATED CAPACITIES MAY VARY AMONG MANUFACTURERS. ALWAYS CHECK THE IDENTIFICATION TAG TO DETERMINE IF TH POLYESTER ROUND SLING RATED CAPACITY IS APPLICABLE FOR THE LIFT

INSPECTION/REMOVAL CRITERIA

ALL BE REMOVED FROM SERVICE IF ANY DEFECTS SUCH AS THE FOLLOWING ARE VISIBLE

MELTING, CHARRING OR WELD SPATTER ON ANY PART OF THE SLING. HOLES, TEARS, CUTS, ABRASIVE WEAR, OR SNAGS THAT EXPOSE THE LEAD CARRYING YARNS.

BROKEN OR WORN STITCHING IN COVER.

FITTINGS THAT ARE PERMANENTLY ATTACHED TO THE SLING ARE DAMAGED. STRETCHED OR DISTORTED IN ANY WAY

KNOTS IN ANY PART OF THE SLING. MISSING OR UNREADABLE SLING IDENTIFICATION TAG.

EVIDENCE OF HEAT DAMAGE

ALWAYS REFER TO ASME B30.9 IN REGARDS TO PROPER INSPECTION AND REJECTION CRITERIA FOR SLINGS

CALL US ABOUT ALL YOUR MATERIAL HANDLING & RIGGING NEEDS

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REGINA 125 Henderson Drive Regina, SK S4N 5W4 306-352-7073 regina@northernstrands.com

ESTERHAZY 816 Park Ave Esterhazy, SK SOA 0X0 306-745-4640 ckotzer@northernstrands.com