

[Http://www.smcorps.co.kr](http://www.smcorps.co.kr)
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SuperMax Rope is innovations of new industry!
Round Sling is new culture of Lifting!

High Performance Fiber

SuperMax® Rope &
Round Sling



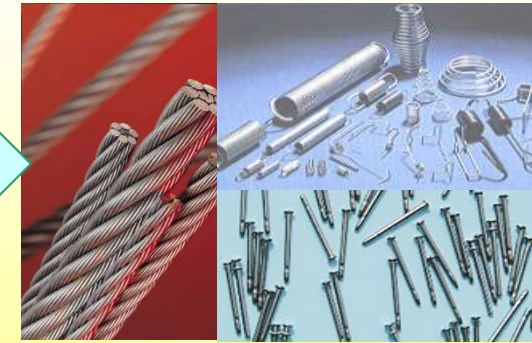
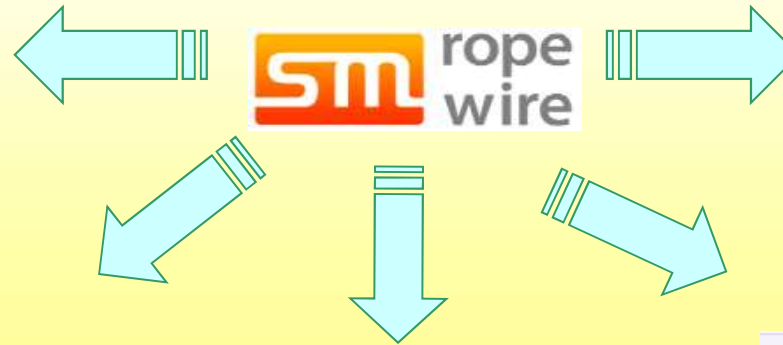
SM Rope & Wire Co., Ltd.

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BUSINESS ITEMS



- Fiber Rope...PP. Ny
- Playing Rope. Net



- Steel & Stainless Wire Rope
- NF Wire . Sus Wire



- Special Round Sling
- **SuperMax®** Round Sling



- Special Rope
- **SuperMax®** Rope . OPGW Power



- 4X4 Offroad Winch Rope
- **Road Power®**



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SuperMax® Rope & Round Sling

SuperMax® Rope is the latest development of **Ultra High Molecular Weight Polyethylene(UHMWPE)** fiber braided rope utilizing DSR's own rope design and manufacturing know-how's.

SuperMax® Round Sling is made of **Ultra High Molecular Weight Polyethylene (UHMWPE)** yarn covered by durable nylon cover to make high performance lifting round slings.

SuperMax® Rope have the strongest tensile strength per weight and stronger than wire rope of same diameter, and it weighs 1/8 of wire rope.

SuperMax® Round Sling with low elongation while it is stronger than wire rope with less than 10% weight of wire rope and which makes lifting job much easier and safer by low elongation.

It enables very low lash back.

SuperMax Yarn Characteristics

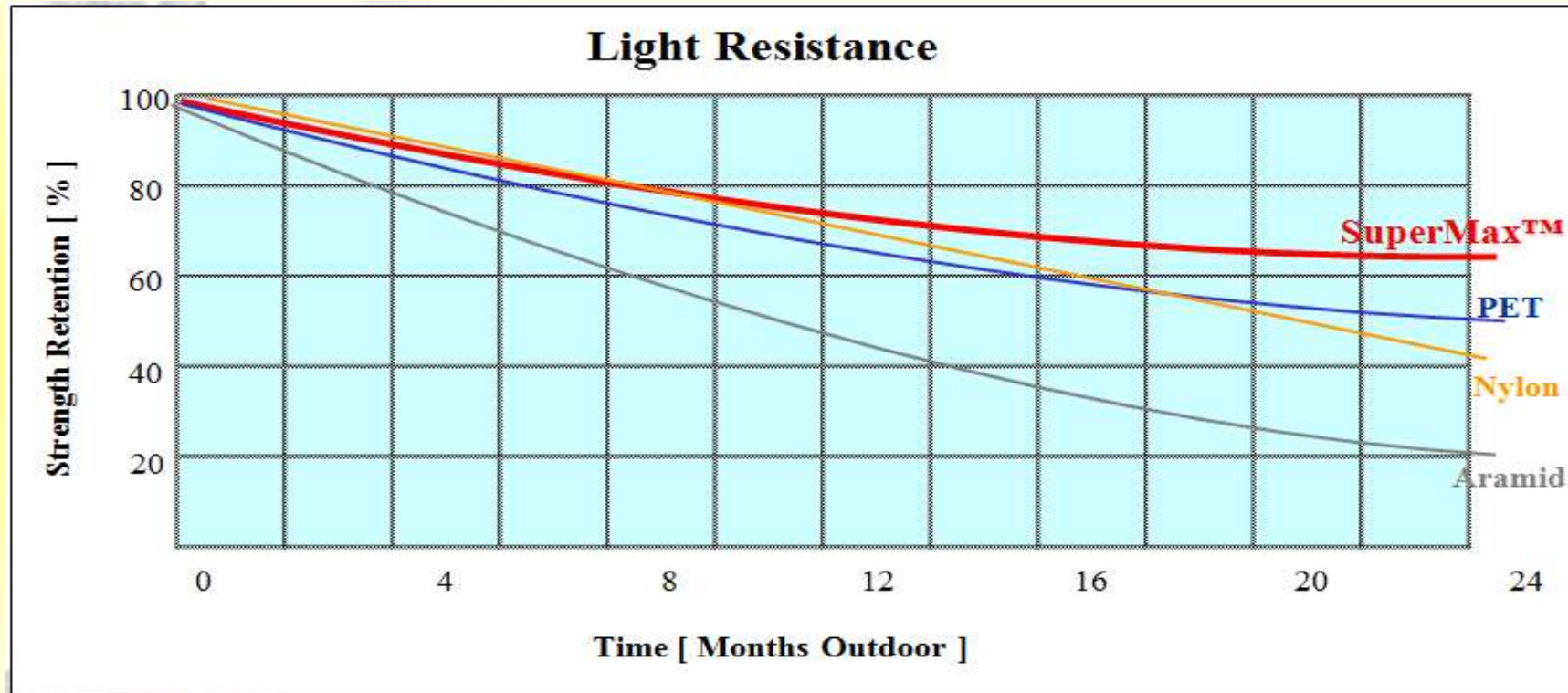


- ◆ Material of Yarn ***** Ultra High Molecular Weight Polyethylene(UHMWPE)
- ◆ Plus Rope ***** UHMWPE Outside - Pet Jacket
- ◆ Tensile Strength ***** 40g/d
- ◆ Melting Point ***** 150℃
- ◆ Melting Point of Plus Rope ***** 150℃ / 265℃
- ◆ Gravity ***** 0.97 (Float)
- ◆ Elongation at break ***** 4 ~ 5%
- ◆ Water Absorption ***** None
- ◆ UV Resistance ***** Good

SuperMax Yarn Characteristics



◆ Data of UV Resistance – SuperMax® has excellent U.V. resistance.



SuperMax Yarn Characteristics



◆ SuperMax® is strong against chemical.

Chemical	SuperMax
Moisture Regain	None
Boiling Water Shrinkage	< 1%
Attack By Water	None
Resistance To Alkalis	Excellent
Resistance To Acids	Excellent
Resistance For UV Light	Very Good
Distilled Water (증류수)	Unaffected
Sea Water (해수)	Unaffected
10% Detergent (합성세제)	Unaffected
Hydrochloric Acid (염산 , PH = 0)	Unaffected
Nitric Acid (질산 , PH = 1)	Unaffected
Glacial Acetic Acid (빙초산)	Unaffected
Ammonium Hydroxide (수산화암모늄)	Unaffected
Sodium Hydroxide (가성소다 , PH > 14)	Slightly Affected
Petrol (휘발유)	Unaffected
Kerosene (등유)	Unaffected
Toluene (톨루엔)	Unaffected



SuperMax Rope Characteristics



◆ SuperMax® Rope has excellent cut-resistance, and anti-abrasion property.

Fiber Type	Cut Resistance	Abrasion Resistance		Break Resistance	
		Dry	Wet	Dry	Wet
SuperMax®	***	**	***	Non	Non
Polyester	**	**	**	Non	Non
Nylon	**	***	*	Non	- 15%
PP	*	*	*	Non	Non
Aramid	***	*	-	Non	- 15 ~ 10%

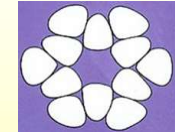
* GOOD ** VERY GOOD *** EXCELLENT



SuperMax Rope Spec



DIA		WT KGS/100M	MBL		DIA		WT KGS/100M	MBL	
MM	INCH		Ton	kN	MM	INCH		Ton	kN
5	3/16	1.6	2.9	28.4	36	1-7/16	68.0	104.0	1019.2
6	1/4	2.3	4.2	41.2	38	1-1/2	74.0	112.0	1097.6
7	9/32	2.9	5.0	49.0	40	1-19/32	84.0	127.0	1244.6
8	5/6	3.9	6.7	65.7	42	1-21/32	93.0	140.0	1372.0
9	3/8	4.8	8.5	83.3	44	1-3/4	102.0	152.0	1489.6
10	13/32	5.9	10.8	105.8	46	1-13/16	111.0	165.0	1617.0
12	15/32	9.5	16.5	161.7	48	1-7/8	121.0	179.0	1754.2
14	9/16	12.8	22.0	215.6	50	2	131.0	193.0	1891.4
16	5/8	16.0	27.5	269.5	52	2-1/16	141.0	206.0	2018.8
18	23/32	20.8	35.0	343.0	56	2-1/4	163.0	236.0	2312.8
20	13/16	25.5	41.5	406.7	60	2-3/8	175.0	252.0	2469.6
22	7/8	30.5	50.0	490.0	64	2-1/2	200.0	282.0	2763.6
24	15/16	35.8	58.0	568.4	68	2-11/16	226.0	316.0	3096.8
26	1-1/32	41.0	66.0	646.8	72	2-7/8	254.0	348.0	3410.4
28	1-1/8	46.5	74.0	725.2	80	3-5/32	313.0	422.0	4135.6
30	1-3/16	52.0	81.5	798.7	88	3-7/16	379.0	503.0	4929.4
32	1-1/4	57.0	88.5	867.3	96	3-13/16	451.0	588.0	5762.4
34	1-11/32	62.5	96.0	940.8	www.smcrops.co.kr				



* SuperMax Rope can be produced up to 120mm.

SuperMax Plus Rope Spec



DIA		WT		MBL		DIA		WT		MBL	
MM	INCH	KGS/100M	LBS/100FT	TON	kN	MM	INCH	KGS/100M	LBS/100FT	TON	kN
20	13/16	21.8	14.65	30	269.8	52	2-1/16	160.0	107.5	195	1,915
22	7/8	30.6	20.56	38.6	343.3	56	2-1/4	183.0	123.0	230	2,258
24	15/16	36.1	24.26	46	407.1	60	2-3/8	205.0	137.8	263	2,583
26	1-1/32	43.50	29.23	54	530.3	64	2-1/2	236.0	158.6	308	3,024
28	1-1/8	50.00	33.60	63	618.6	68	2-11/16	264.0	177.4	345	3,388
30	1-3/16	54.20	36.42	68	667.7	72	2-7/8	295.0	198.2	380	3,731
32	1-1/4	64.00	43.01	74	726.6	76	3	331.0	22.4	429	4,213
34	1-11/32	71.80	48.25	84	824.8	80	3-5/32	359.0	241.2	458	4,497
36	1-7/16	78.90	53.02	93	913.2	88	3-7/16	421.0	282.9	540	5,303
38	1-1/2	86.10	57.86	102	1,002	96	3-13/16	511.0	343.4	626	6,147
40	1-19/32	94.80	63.70	114	1,119	104	4-1/8	598.0	401.8	745	7,316
42	1-21/32	104.6	70.29	127	1,247	112	4-7/16	694.0	466.3	833	8,180
44	1-3/4	111.0	74.60	135	1,326	120	4-3/4	786.0	528.2	955	9,378
48	1-7/8	137.0	92.06	165	1,620	www.smcrops.co.kr					



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COMPARISON DATA of WIRE & SuperMax ®ROPE



	Mooring Wire Rope Galvanized 6 x WS(36) + IWRC	SuperMax Plus Rope SuperMax(HMPE) + Jacketed Polyester Fibre
Diameter(mm)	42mm	42mm
Length(metres)	275metres	275metres
Weight(kg)	2,077kg	293kg
M.B.L	124MT	127MT
Tensile Strength(g/d)	2g/d	40g/d
Elongation(%)	6-7%	4-5%

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SuperMax

SuperMax® Round Sling



SuperMax® Round Sling

It's used for enterprise project like the place which is needed to be safe for the treatment of tool and the items with high load as it consist of the raw material of **UHMWPE**.

SuperMax® Round Sling is the item which pursues light weight for the convenient use and complements the disadvantages which happen when using it.






SuperMax® Round Sling makes lifting Job much easier and safer by low elongation. It enables very low lash back.



Round Sling



SuperMax® Round Sling SPEC

S.W.L (Safety Working Load) (kg)	Safety Working Load (use form)					SAFETY FACTOR 7:1 Breaking Strength (kg)
	Vertical 	Choker 	45° 	60° 	Basket 	
1,000	1,000	800	1,400	1,000	2,000	7,000
2,000	2,000	1,600	2,800	2,000	4,000	14,000
3,000	3,000	2,400	4,200	3,000	6,000	21,000
4,000	4,000	3,200	5,600	4,000	8,000	28,000
5,000	5,000	4,000	7,000	5,000	10,000	35,000
6,000	6,000	4,800	8,400	6,000	12,000	42,000
8,000	8,000	6,400	11,200	8,000	16,000	56,000
10,000	10,000	8,000	14,000	10,000	20,000	70,000
15,000	15,000	12,000	21,000	15,000	30,000	105,000
20,000	20,000	16,000	28,000	20,000	40,000	140,000
25,000	25,000	20,000	35,000	25,000	50,000	175,000
30,000	30,000	24,000	42,000	30,000	60,000	210,000
40,000	40,000	32,000	56,000	40,000	80,000	280,000
50,000	50,000	40,000	70,000	50,000	100,000	350,000
60,000	60,000	48,000	84,000	60,000	120,000	420,000
70,000	70,000	56,000	98,000	70,000	140,000	490,000
80,000	80,000	64,000	112,000	80,000	160,000	560,000
100,000	100,000	80,000	140,000	100,000	200,000	700,000

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APPLICATION

◆ Hanjin Heavy Industry



◆ Dangjin Power Plant



APPLICATION

◆ General Application



SuperMax Plus Rope Yard Mooring



Mooring Rope of LNG Ship

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