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▶ Ultimatex Round Sling

S.W.L (Safety Working Load) Ton	TYPE	Vertical	Choker	Basket		B.L (Breaking Load) Ton Safety Factor 1:7
		0		45	30	
		1	0.8	2	1.4	1.6
	Safety Factor					
	Item No					
5	ULT005	5	4	10	7	8
10	ULT010	10	8	20	14	16
15	ULT015	15	12	30	21	24
20	ULT020	20	16	40	28	32
30	ULT030	30	24	60	42	48
40	ULT040	40	32	80	56	64
50	ULT050	50	40	100	70	80
60	ULT060	60	48	120	84	96
80	ULT080	80	64	160	112	128
90	ULT090	90	72	180	126	144
100	ULT100	100	80	200	140	160
150	ULT150	150	120	300	210	240
200	ULT200	200	160	400	280	320

Supply you with any S.W.Ls you want in addition to abovementioned.

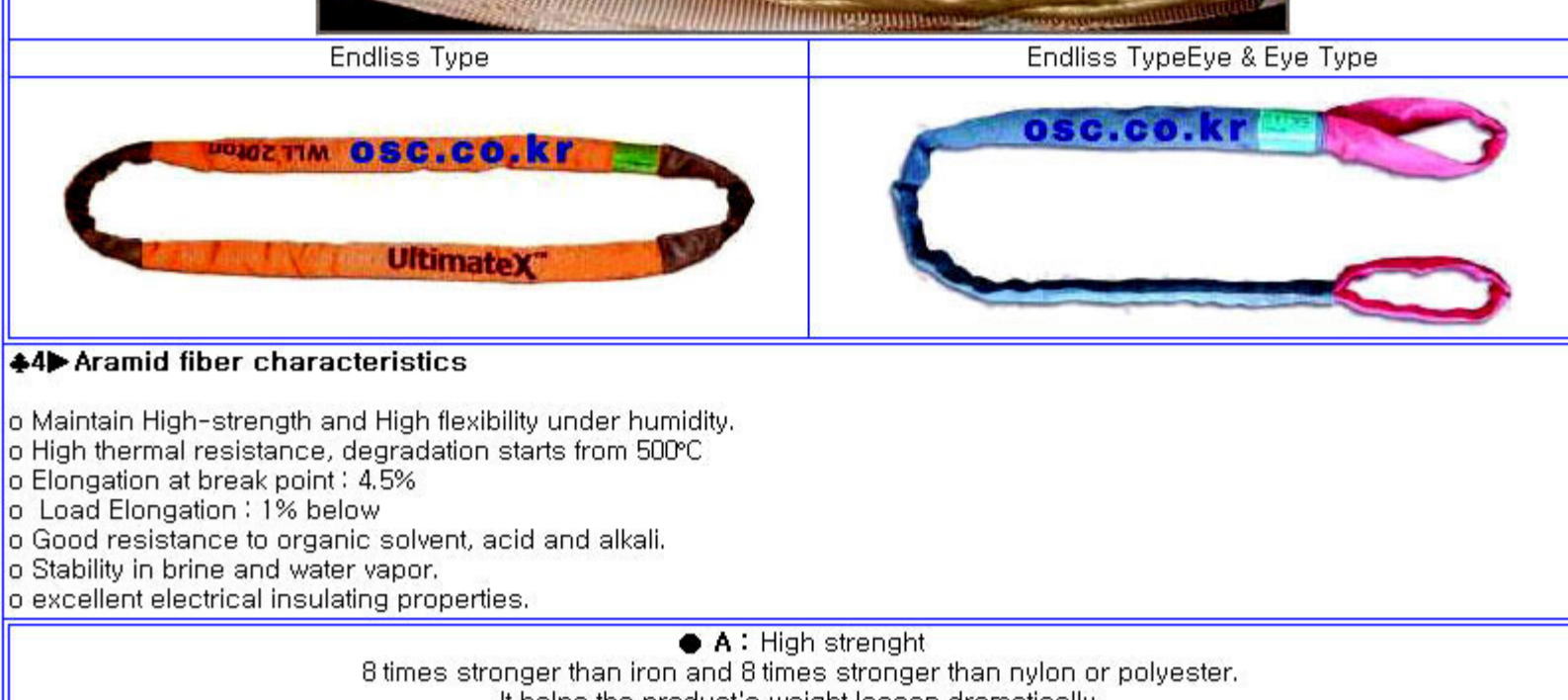
Endless Type

S.W.L Ton	0%	0%	30%	45%	60%	90%	120%
	100%	100%	95%	90%	85%	70%	50%
5	5	10	9.5	9	8.5	7	5
10	10	20	19	18	17	14	10
15	15	30	28.5	27	25.5	21	15
20	20	40	38	36	34	28	20
30	30	60	57	54	51	42	30
40	40	80	76	72	68	56	40
50	50	100	95	90	85	70	50
60	60	120	114	108	102	84	60
80	80	160	152	144	136	112	80
90	90	180	171	162	153	126	90
100	100	200	190	180	170	140	100
150	150	300	285	270	255	210	150
200	200	400	380	360	340	280	200

▶ Ultimatex Round Sling Description

- o Made from High strength fiber, Aramid Fiber. Widely used to lift many tons of products and work for safety needed.
- o Made up for the defects of Steel Wire Rope Sling.
- o Highly strong and 8 or 10 times lighter than Steel Wire Rope Sling under same strength.
- o Convenient to handle as well. Get productivity increases.
- o Prevent your employees from getting musculoskeletal system disorder.

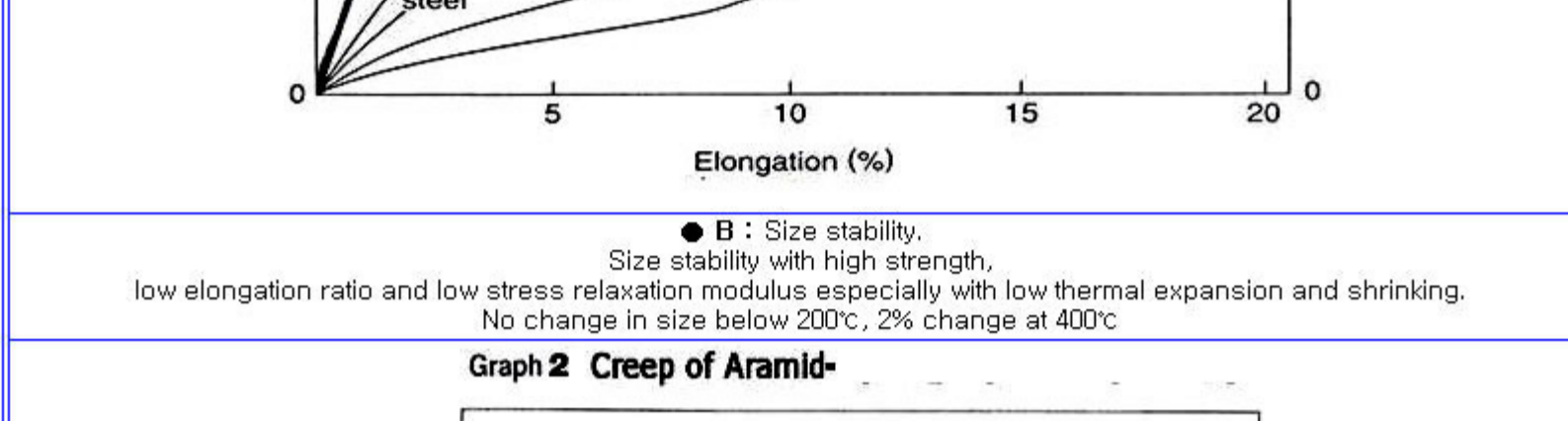
▶ Ultimatex Round Sling General Structure



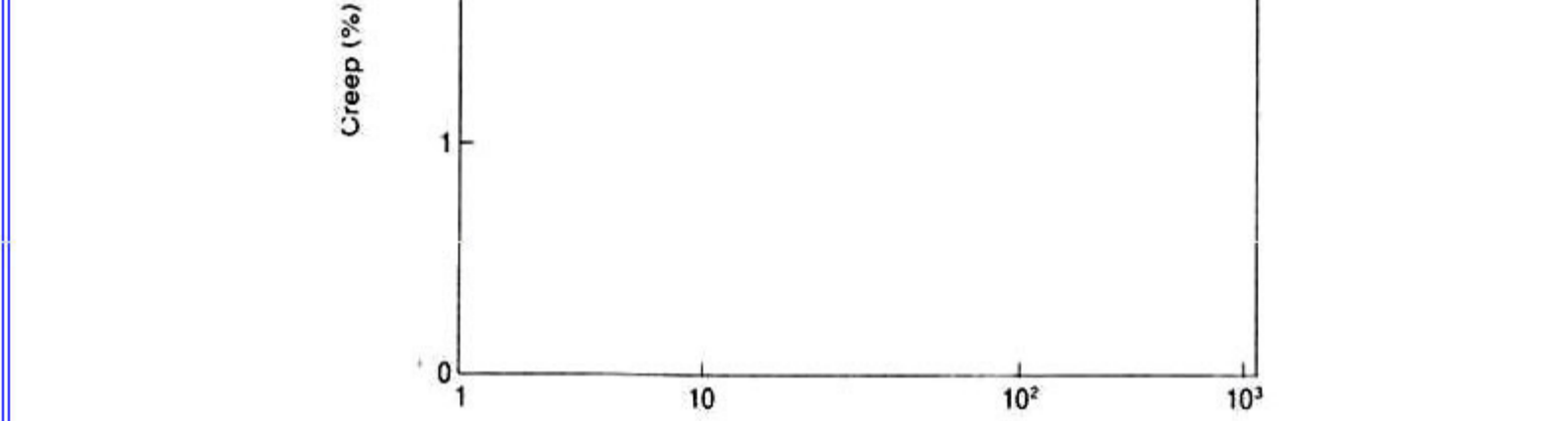
▶ Aramid fiber characteristics

- o Maintain High-strength and High flexibility under humidity.
- o High thermal resistance, degradation starts from 500°C
- o Elongation at break point : 4.5%
- o Load Elongation : 1% below
- o Good resistance to organic solvent, acid and alkali.
- o Stability in brine and water vapor.
- o excellent electrical insulating properties.

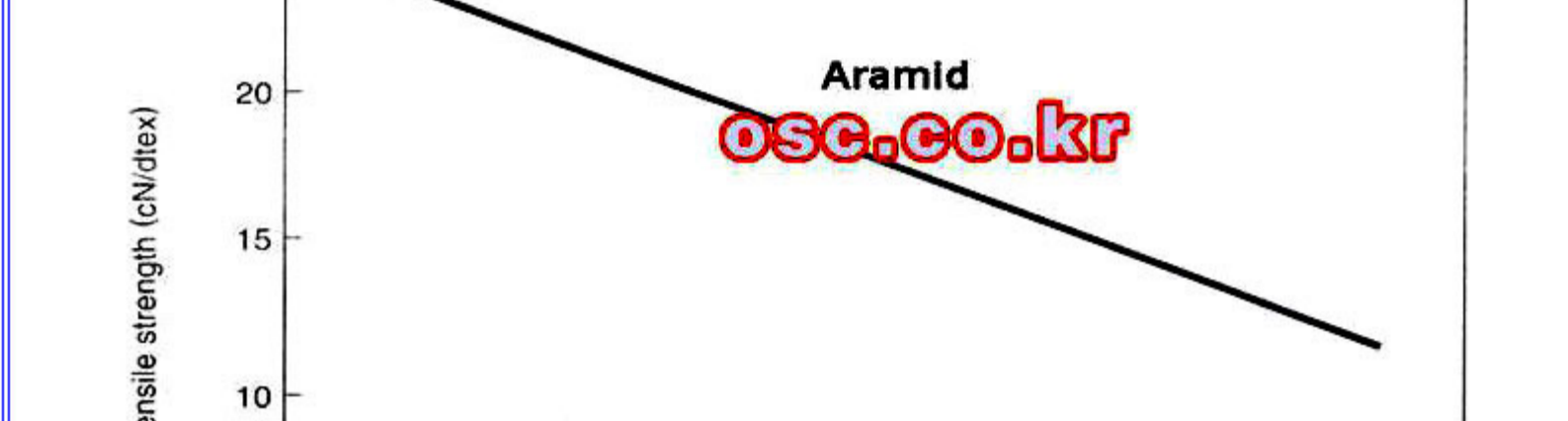
● A : High strength
8 times stronger than iron and 8 times stronger than nylon or polyester. It helps the product's weight lessen dramatically.



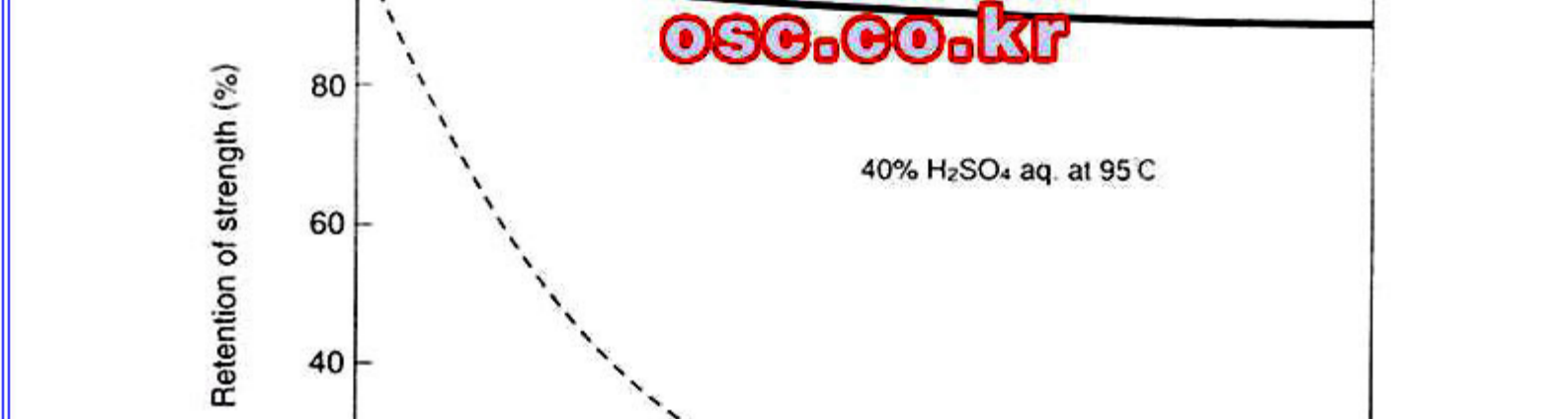
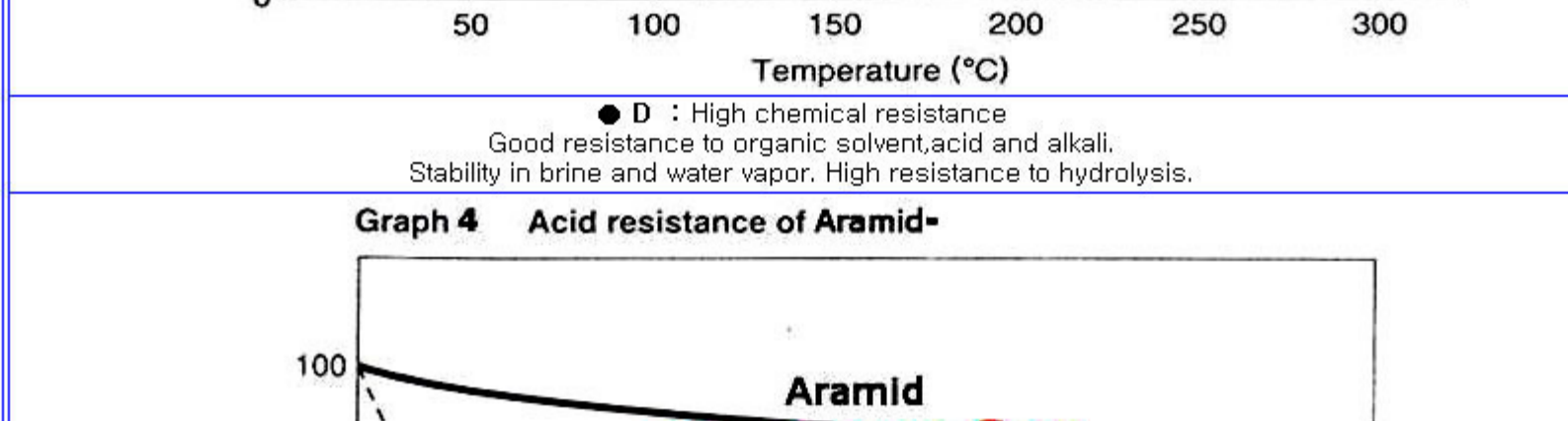
● B : Size stability.
Size stability with high strength, low elongation ratio and low stress relaxation modulus especially with low thermal expansion and shrinking. No change in size below 200°C, 2% change at 400°C



● C : Thermal resistance
Degradation starts from 500°C. Use for many long hours even at 200°C



● D : High chemical resistance
Good resistance to organic solvent, acid and alkali. Stability in brine and water vapor. High resistance to hydrolysis.



▶ Loss factor by Sling angle with products

- o Its lifting capacity decrease by the angle of sling which is shown below.
- o Check the length of sling, the degrees of sling angle and the variation of load before lifting.
- o Safe to lift below 45°, otherwise you should use longer sling in order to get more than 45°.

Sling Angle	90°	60°	45°	30°
S.W.L=10,000 kg				
S.W.L x safety factor	10,000 x 1	10,000 x 0.866	10,000 x 0.707	10,000 x 0.5
S.W.L	10,000	8,660	7,070	5,000

▶ Ultimatex Round Sling & Wire Rope Sling Distinctive Comparative Table

비교	Ultimatex Round Sling	Wire Rope Sling
Weight	8~10 times lighter than Wire Rope Sling under same strength	Too heavy to handle and install. Easily causes musculoskeletal system disorder
Safety	1. Flexible - Good flexibility 2. Fixes the products tightly 3. excellent safety at work 4. Little damage by friction with products 5. Hardly get injured at work Prevent musculoskeletal system disorder	1. Solid - Bad flexibility 2. Easy to let the products slip away 3. Unsafety at work 4. Easy to get damaged 5. Easy to get musculoskeletal system disorder
Durability	1. Good resistance to chemicals. 2. Thermal resistance below 180 °c	1. erodible by acid and alkali
Economy	1. Lower weight, easy to install 2. High working efficiency 3. Reduces working hours 4. More cost-effective	1. Heavy wire 2. Low working efficiency 3. Takes long time to install 4. Costs more to manage
safekeeping	Easy to safekeep due to high flexibility	Needs a lot more space to safekeep due to inflexibility

▶ Ultimatex Round Sling & Wire Rope Sling Weight Comparative Table

Weight Comparison	Ultimatex Round Sling	Steel Wire Rope Sling
Standards	60 Ton x 10m	61 Ton X 10m
Structure	Endless Type	6x37 FC, Galv
Safety	6 : 1	6 : 1
Breaking point	360 Ton	369 Ton
Weight	38 kg	391 kg
Thickness	55 φ	80 φ

▶ Ultimatex Round Sling & Polyester Round Sling Weight Comparative Table

Weight Comparison	Ultimatex Round Sling	Polyester Round Sling
Standards	100 Ton x 15m	100 Ton X 15m
Structure	Endless Type	Endless Type
Safety	6 : 1	6 : 1
Weight	95.7 kg	290 kg
Thickness	77 φ	145 φ

▶ Supporter Type



▶ Disposal Standards

- o 1/10(10%) damage of belt width, or 1/5(20%) of belt thickness.(abiding by KS B 6241)
- o Inner core is cut off through damage with the woven sleeve
- o Body is badly worn out.Inner core hardened.
- o Inner core hardened.
- o Damaged by high temperature or welding.
- o Damaged by chemicals or erosion
- o Doubtful whether the tensile strength falls off by appearance.

▶ Safekeeping

- o Well ventilated and dry space which keeps bacteria from reproducing.
- o Keep away from heat and a direct ray of the sun.
- o Keep away from severe cold to prevent sling damage.

▶ Ultimatex Round Sling Application Example



▶ Important Buy

Exporting Country - USA, EU, ASIA	Samsung Heavy Industries Co., Ltd www.shi.samsung.co.kr	Hyundai Heavy Industries Co., Ltd www.hhi.co.kr
Hanjin Heavy Industries Co., Ltd www.hanjinsc.com	Hyundai Samho Heavy Industries Co., Ltd www.hshi.co.kr	Doosan Heavy Industries Co., Ltd www.doosanheavy.com
Daewoo Shipbuilding&Marine Engineering www.dsme.co.kr	Hyundai Motor Co., Ltd www.hyundai.com	Doosan Engine Co., Ltd www.doosanengine.com
Posco Group www.posco.co.kr	Hyundai Rotem Co., Ltd www.hyundai-rotem.co.kr	STX Heavy Industries Co., Ltd www.stxhi.co.kr
STX Engine Co., Ltd www.stxengine.co.kr	STX Enpaco Co., Ltd www.stxenpaco.co.kr	W I A Co., Ltd www.wia.co.kr

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