

Sutures



Suture is a non-absorbable linear material used for human surgical suture suture woven with ultra-high molecular weight polyethylene (UHMWPE) fiber, which is a non-absorbable linear material used for surgical suture, fixation, and auxiliary guidance. The thread is non-toxic, non-irritating, non-sensitive reaction, and has many advantages, such as strong tensile force, wear resistance and cutting resistance, self-smooth, non-absorbent, etc., and has been widely used in the medical field of orthopedic surgery. The thread maintains sufficient strength during wound healing and adapts to wound edema. Ultra-high molecular weight polyethylene sutures are non-degradable and absorbent, do not produce inflammation, are easy to sterilize, disinfect and other treatments, and can form safe and firm tripping knots.

SPECIFICATIONS				
SIZE USP	Diameter average mm	Strength at break Kgf	Colors	packages m
6 - 0	0.080 — 0.999	1.8	White / White blue / White black / Blue / Green	1000
5 - 0	0.100 — 0.149	2.7	White / White blue / White black / Blue / Green	1000
4 - 0	0.150 — 0.199	3.6	White / White blue / White black / Blue / Green	1000
3 - 0	0.250 — 0.299	4.8	White / White blue / White black / Blue / Green	1000
2 - 0	0.300 — 0.349	5.4	White / White blue / White black / Blue / Green	1000
0	0.350 — 0.399	7.2	White / White blue / White black / Blue / Green	1000
1	0.400 — 0.499	11.25	White / White blue / White black / Blue / Green	1000
2	0.500 — 0.599	21	White / White blue / White black / Blue / Green	1000

3,4	0.600 — 0.699	27	White / White blue / White black / Blue / Green	500
5	0.700 — 0.799	39	White / White blue / White black / Blue / Green	500
6	0.800 — 0.899	48	White / White blue / White black / Blue / Green	500
7	0.900 — 0.999	57	White / White blue / White black / Blue / Green	500
8	1.000 — 1.099	70.5	White / White blue / White black / Blue / Green	500
9	1.100 — 1.199	82.5	White / White blue / White black / Blue / Green	500
10	1.200 — 1.299	94.5	White / White blue / White black / Blue / Green	500

Note: According to the provisions of GB/T 8170, the single root value is generally taken according to the average value of the corresponding specification.

COLORS



White



White blue

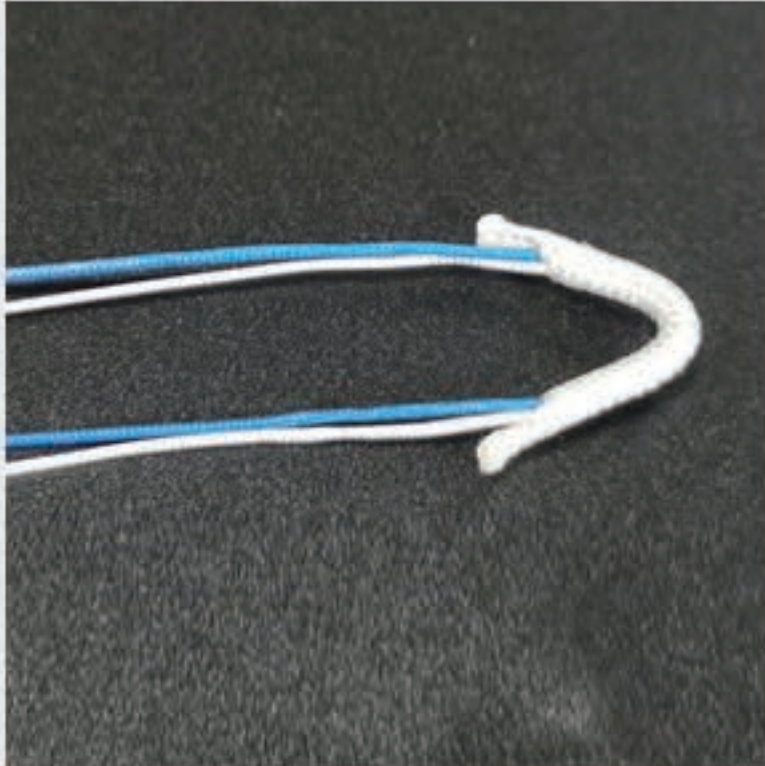


Blue



Green

STYLE








PHYSICAL PROPERTIES

Number	Physical name	Index
1	Moisture regain	No
2	Hot water shrinkage	< 1%
3	Hydrophilicity	No
4	Acid resistance	Fine
5	Alkali resistance	Fine
6	Resistance to many chemical reagents	Fine
7	Anti-UV	Durable
8	Melting Point	135 - 145°C
9	Thermal conductivity	20w/mk
10	Coefficient of thermal expansion	-12 x 10 ⁶ /K
11	Resistance	> 10 ¹⁴ Ω
12	Dielectric constant (22°C, 10GHz)	2.25
13	Dielectric strength	900kV/cm
14	Dissipation factor	2 x 10 ⁻⁴
15	Creep deformation (22°C, 20% Load)	1 x 10 ⁻² % (Per day)

CHEMICAL PROPERTIES

Number	Chemical name	Strength Retention after 6-month infiltration
1	Distilled water	100
2	Sea water	100
3	10% Detergent	100
4	Kerosene	100
5	Gasoline	100
6	Glacial acetic acid	100
7	10% Phosphoric acid	100

8	Toluene	100
9	29% Ammonium hydroxide	100
10	29% NH ₄ OH	100
11	(5mol/L) NaOH	100
12	(1mol/L) HCL	100

LIGHT RESISTANCE

Number	Assay method	Remained Strength
1	Exposed to ultraviolet radiation for 1500 hrs	90%

ABRASION RESISTANCE AND BENDING RESISTANCE

Number	Assay method	Remained Strength
1	Abrasion Resistance, Circle index before breakage	$>110 \times 10^{-3}$
2	Bending resistance, Circle index before breakage	$>240 \times 10^{-3}$
3	Cohesion strength (g/d)	10~15
4	Looping strength (g/d)	12~18

TENSILE FATIGUE RESISTANCE

Number	Assay method	Remained Strength
1	The data were taken from a thousand times of circulating load tests	100%

