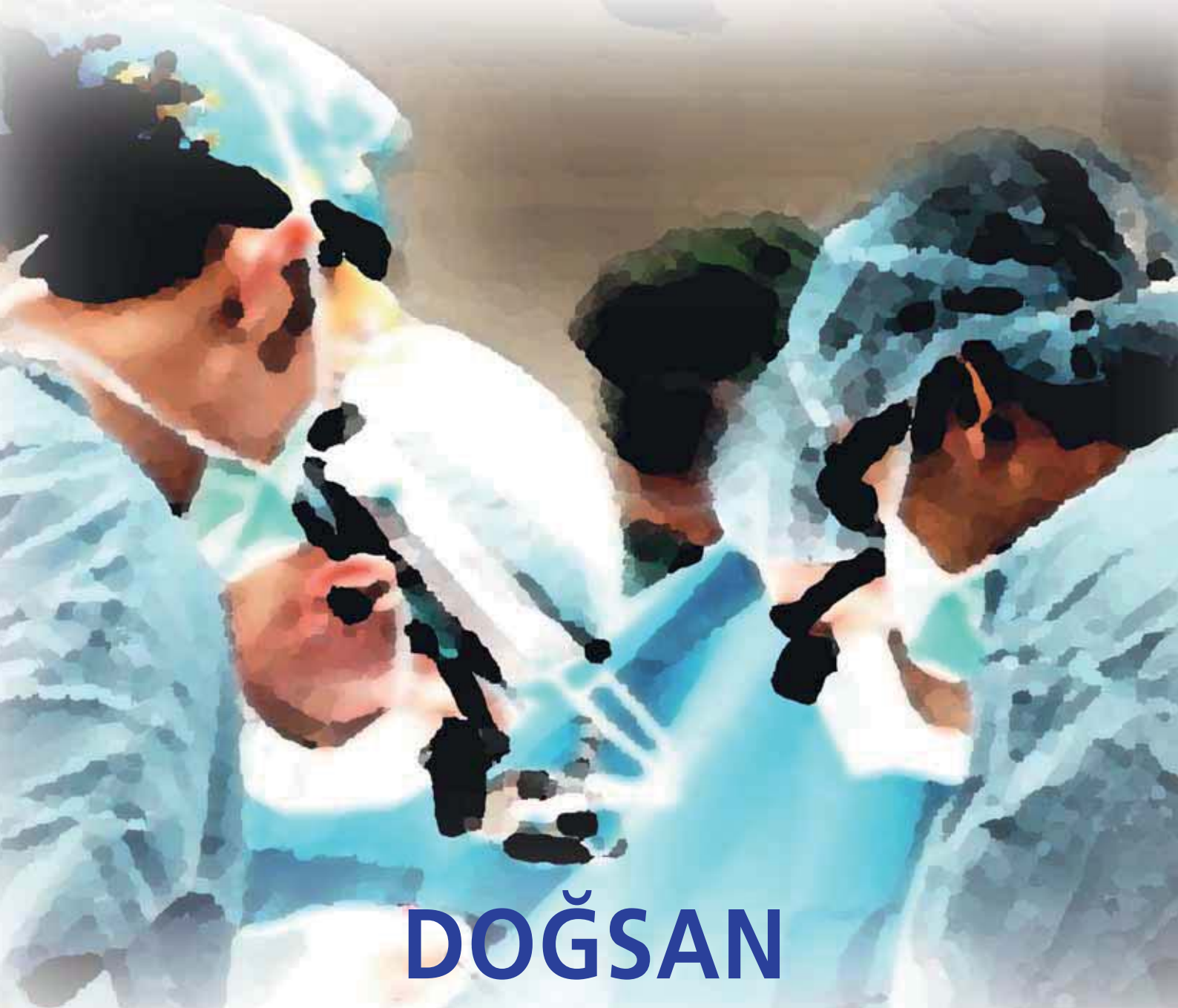




DOĞSAN

SURGICAL SUTURES

Product Guide



EP/USP Tensile Strength Table (minimum values)

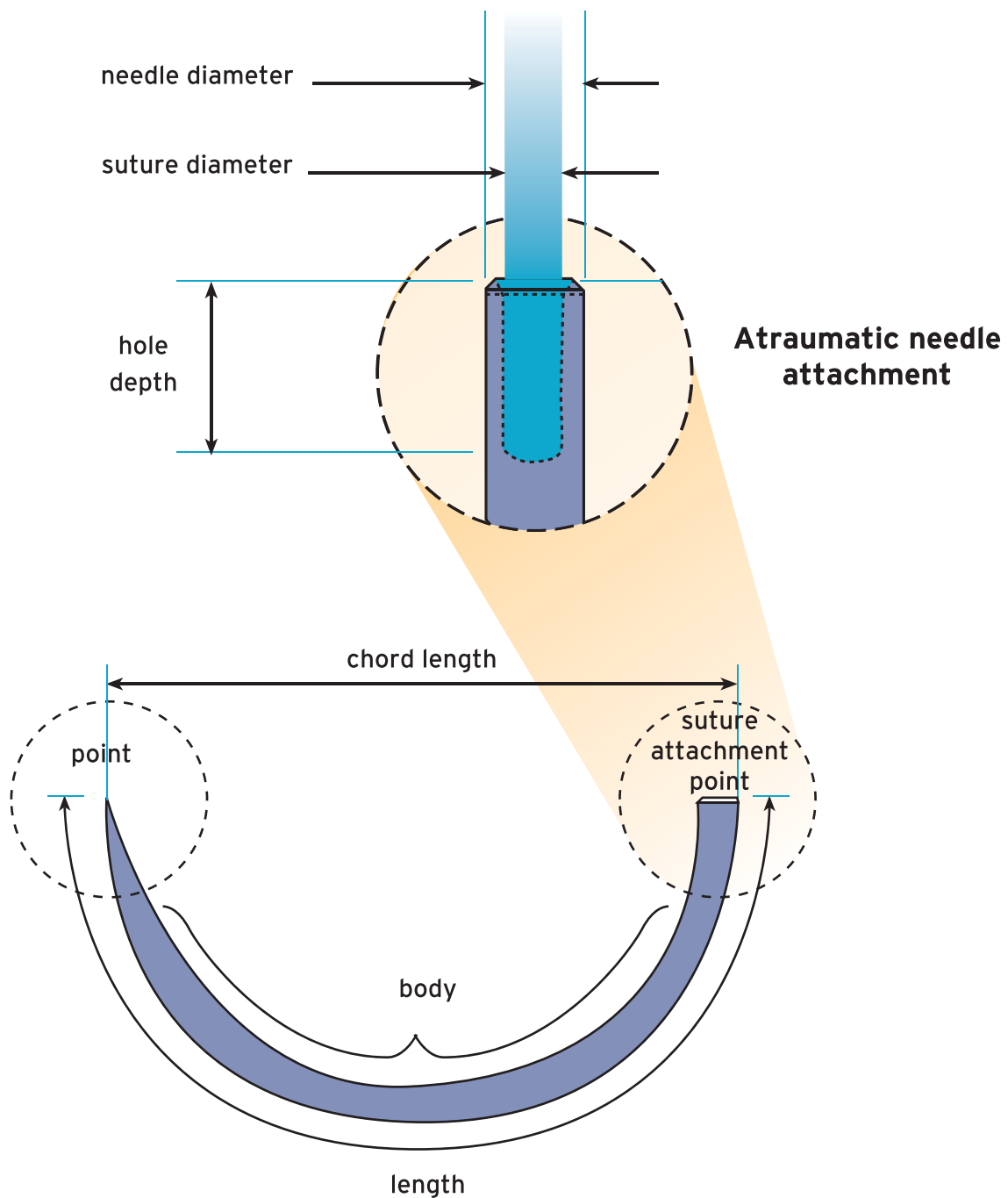
		NON-ABSORBABLE					SYNTHETIC ABSORBABLE			
		DIAMETER	TENSILE STRENGTH		STEEL WIRE		DIAMETER		TENSILE STRENGTH	
		(mm)	(kgf)		(kgf)		MONOFILAMENT	MULTIFILAMENT	(kgf)	
USP	metric	min-max	min	avarage	min	avarage	min-max (mm)	min-max (mm)	min	avarage
11/0	0.1	0.010 - 0.019	-	0.003			-	-	-	
10/0	0.2	0.020 - 0.029	-	0.010			-	-	-	
9/0	0.3	0.030 - 0.039	0.006	0.035			-	-	0.023	0.045
8/0	0.4	0.040 - 0.049	0.015	0.060			-	0.040 - 0.049	0.035	0.070
7/0	0.5	0.050 - 0.069	0.030	0.102			0.050 - 0.094	0.050 - 0.069	0.070	0.140
6/0	0.7	0.070 - 0.099	0.060	0.150			0.095 - 0.149	0.070 - 0.099	0.130	0.250
5/0	1	0.100 - 0.149	0.102	0.310			0.150 - 0.199	0.100 - 0.149	0.340	0.680
4/0	1.5	0.150 - 0.199	0.150	0.510			0.200 - 0.249	0.150 - 0.199	0.470	0.950
3/0	2	0.200 - 0.249	0.310	0.920			0.250 - 0.339	0.200 - 0.249	0.890	1.750
2/0	3	0.300 - 0.349	0.920	1.530			0.340 - 0.399	0.300 - 0.349	1.340	2.680
0	3.5	0.350 - 0.399	1.330	2.240			0.400 - 0.499	0.350 - 0.399	1.850	3.900
1	4	0.400 - 0.499	1.530	2.750			0.500 - 0.570	0.400 - 0.499	2.540	5.080
2	5	0.500 - 0.599	2.240	3.570	4.420	5.900	0.571 - 0.610	0.500 - 0.599	3.180	6.350
3 & 4	6	0.600 - 0.699	2.750	5.100	6.830	9.110	-	-	-	-
5	7	0.700 - 0.799	3.570	6.320	8.550	11.400	-	-	-	-
6	8	0.800 - 0.899	5.100	7.450	10.200	13.600	-	-	-	-
7	9	0.900 - 0.999	-	-	11.930	15.980	-	-	-	-
8	10	1.000 - 1.099	-	-	13.650	18.200	-	-	-	-

Adopted from EP and USP



Needles

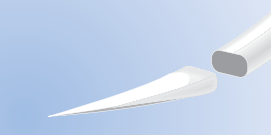
Structure of Atraumatic Needles



Needle Types According to Curvature



Atraumatic Surgical Needles

name	tip	body	symbol	description
round bodied				- The most popular and classic needle type. - Use in all soft tissue approximation including cardiovascular surgery.
cutting	inside 			- Edges are specially sharpened for an easy and smooth penetration. - Cutting edge is inside the needle. - Used in skin closures and in all applications requiring cutting needles.
	outside 			- Edges are specially sharpened for an easy and smooth penetration. - Cutting edge is outside the needle. - Widely used in skin closures and especially in plastic surgery.
PL				- Special geometry for easy penetration and high resistance to bending with a slim body. - Widely used in plastic and cosmetic surgery and skin closures.
KD				- Specially designed for cardiovascular surgery for calcified vessels and tough fibrous tissues. - The body is pressed to square shape to increase resistance to bending. - Tip is specially sharpened for superior penetration.
diamond (taper cut)				- For better penetration and less tissue trauma, tip of the needle is sharpened. - Widely used in cardiovascular/thoracic, orthopedic, obstetrics/gynecologic surgery and repairs of tendons and fibrous tissues.
black				Used where better visibility and prevention of reflection of the needle is required (eg when blood concentration is high) .
				- Darkening of the metal is made by surface oxidation technique. - Widely used in cardiovascular surgery.
spatulated				- Both side edges and upper surface are cutting while the body is flattened. - Widely used in ophthalmic surgery.
blunt point				- The tip of the needle sharpness of round bodied is reduced. - Uses include repair of liver and sensitive friable tissues.



politer®

USP **2/0** metric 3 REF **R52502**
politer®

surgical suture/cerrahi iplik
braided/örgülü, non-absorbable,
non-capillary polyester, coated
EP, USP

yesil/green
90 cm

25 mm 1/2
yuvarlak-round

çift-double

doğsan

CE 0473
LOT 12345
2011-10
2016-10

Form No: F-09/37 Rev. No: 1



Description: Non-Absorbable, synthetic, braided, coated suture, made by braiding of fine polyester filaments, ideal for cardiovascular & implant surgery for very long term support

Characteristics: Very high tensile strength
Permanent support
Excellent knot security
Excellent handling
Providing maximum security under stress

Tensile strength: permanent, no known significant change in tensile strength retention in vivo.

Material : polyethylene terephthalate (polyester)

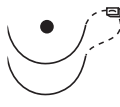
Coating: silicone based

Structure: Braided (multifilament)

Colour : Green / White

Sterilization: EO

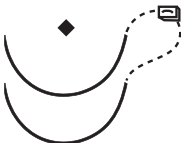
Packaging: Available in USP 5/0 (metric 1) through USP 5 (metric 7) in boxes of 12 (one dozen) pouches.

needle information		needle diameter	colour	suture length	1	1.5	2	3
					5/0	4/0	3/0	2/0
8 mm								
1/4 spatulated, double		330 μ	white	45 cm	02882			
		330 μ	green	45 cm	R2882			
13 mm								
3/8 cutting		380 μ	green	45 cm	R233	R333		
3/8 round bodied, double		330 μ	green	75 cm	R2312			
		380 μ	green	75 cm		R3312		
16 mm								
1/2 round bodied			green	75 cm		R3160	R4160	
1/2 round bodied, double			green	90 cm		R31602	R41602	
3/8 cutting			green	75 cm		R3165	R4165	
17 mm								
1/2 round bodied, double			green	90 cm		R31702	R41702	R51702
1/2 round bodied, double	  With PTFE Pledget 6 x 3 mm		green	75 cm				R5170P
			white	75 cm				05170P
1/2 diamond, double			green	90 cm	R21762	R31762	R41762	R51762
1/2 diamond, double	  With PTFE Pledget 6 x 3 mm		green	75 cm				R5176P
18 mm								
3/8 diamond, double			green	75 cm			R41862	

needle information	needle diameter	colour	suture length	1	1.5	2	3
				5/0	4/0	3/0	2/0

20 mm								
1/2 round bodied, double			green	90 cm		R32002	R42002	R52002
			green	75 cm		R31902	R41902	R51902
1/2 round bodied, double	  With PTFE Pledget 6 x 3 mm		green	75 cm				R5190P
			white	75 cm				05190P

needle information	colour	suture length	2	3	3.5	4	5
			3/0	2/0	0	1	2

25 mm								
1/2 round bodied		green	75 cm	R4250	R5250	R6250		
1/2 round bodied, double		green	75 cm	R42402	R52402			
		green	90 cm	R42502	R52502	R62502		
	  With PTFE Pledget 6 x 3 mm	green	75 cm		R5240P			
		white	75 cm		O5240P			
1/2 diamond, double		green	90cm	R42562	R52562			
		  With PTFE Pledget 6 x 3 mm	green	75cm		R5256P		
	white		75cm		O5256P			
3/8 cutting		green	75 cm	R4255	R5255			

30 mm								
1/2 round bodied		green	75 cm		R5300	R6300		
3/8 cutting		green	75 cm	R4303	R5303			



teknel®

USP **7** metric **9** REF **E1487**

teknel®

surgical suture/cerrahi iplik
nonabsorbable/emilmeyen
stainless steel wire/cerrahi çelik tel
monofilament

48 mm 1/2
diamond fixed head needle
sabit iğne

4x45 cm
12 Adet/pouches

CE 0473
LOT 12345
2011-10
2016-10

STERILEEO

doğsan

Form No: F-09/40 Rev. No:1



Description:	Non-absorbable stainless steel wire
Characteristics:	An ideal suture for sternotomy closure. Smooth surface and soft structure provides easy pass through tissues. Very high tensile strength and minimum tissue reaction.
Tensile strength:	Permanent
Material:	Monofilament
Structure:	316L
Colour:	Metallic grey
Sterilization:	EO
Packing:	Available in USP 2 (metric 5) - USP 8 (metric 10) in boxes of 12 (one dozen) pouches with rotating or fixed head needle alternatives

needle information	suture length	5	6	7	8	9
		2	3&4	5	6	7

45 mm						
1/2 taper cut	 fixed head needle	4 x 45 cm	E7457	E8457		
		2 x 45 cm	E7459			

48 mm							
1/2 taper cut	 rotating needle	4 x 45 cm			E9486	E0486	E1486
		2 x 75 cm			E9488	E0488	E1488
	 fixed head needle	4 x 45 cm			E9487	E0487	E1487

55 mm							
1/2 cutting	 rotating needle	2 x 75 cm			E9553	E0553	
		4 x 45 cm			E9551	E0551	E1551

*Touching
the hearts for*
A HALF CENTURY



Surgical Sutures

50 years

Tektel®

Surgical Stainless Steel Wire



- 316L soft stainless steel for sternum closure
- 360° rotating and fixed head types
- Easy handling
- Cutting, diamond, trocar point needle types
- High needle attachment

Product Code	Product Specifications
E7459	Tektel 2 45 mm 1/2 diamond, fixed head (2x45cm)
E7457	Tektel 2 45 mm 1/2 diamond, fixed head (4x45cm)
E8457	Tektel 4 45 mm 1/2 diamond, fixed head (4x45cm)
E9488	Tektel 5 48 mm 1/2 diamond, rotating head (2x75cm)
E9486	Tektel 5 48 mm 1/2 diamond, rotating head (4x45cm)
E9487	Tektel 5 48 mm 1/2 diamond, fixed head (4x45cm)
E9553	Tektel 5 55 mm 1/2 cutting (▼), rotating head (2x75cm)
E9551	Tektel 5 55 mm 1/2 cutting (▼), rotating head (4x45cm)
E0486	Tektel 6 48 mm 1/2 diamond, rotating head (4x45cm)
E0487	Tektel 6 48 mm 1/2 diamond, fixed head (4x45cm)
E0553	Tektel 6 55 mm 1/2 cutting (▼), rotating head (2x75cm)
E0551	Tektel 6 55 mm 1/2 cutting (▼), rotating head (4x45cm)
E0554	Tektel 6 55 mm 1/2 cutting (▼), fixed head (4x45cm)
E1486	Tektel 7 48 mm 1/2 diamond, rotating head (4x45cm)
E1487	Tektel 7 48 mm 1/2 diamond, fixed head (4x45cm)
E1553	Tektel 7 55 mm 1/2 cutting (▼), rotating head (2x75cm)
E1551	Tektel 7 55 mm 1/2 cutting (▼), rotating head (4x45cm)