



Wound-Closure Solutions

Product Catalogue



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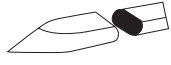

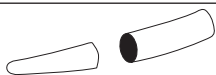



Company Introduction

WCS Healthcare is committed to developing & Distributing “Best-In-Class” Medical devices in the field of wound-closure.

There are still many unsolved challenges in the field of wound-closure, WCS Healthcare is committed to working with innovative scientists & professionals in leading institutions to develop unique, cost-effective solutions.

Based on our privately developed products and through joint ventures with leading manufacturers, we distribute directly or via local partners a selection of high-quality, cost-effective wound-closure products.

Needle Types and Tip Geometries

	Code	Tip Geometry	Needle cross-section
Taper	TA		
Reverse Cutting	RC		
Cutting	CU		
Premium Cutting	P		
Diamond	DA		
Spatula	SP		
Blunt	BL		
Taper Cut	TC		

Suture Size

USP	EP(Metric)	Diameter(mm)
10-0	0.2	0.020-0.029
9-0	0.3	0.030-0.039
8-0	0.4	0.040-0.049
7-0	0.5	0.050-0.069
6-0	0.7	0.070-0.099
5-0	1	0.100-0.149
4-0	1.5	0.150-0.199
3-0	2	0.200-0.249
	2.5	0.250-0.299
2-0	3	0.300-0.349
0	3.5	0.350-0.399
1	4	0.400-0.499
2	5	0.500-0.599

Absorbable




Brand Name	Material	Structure	Range of sizes(USP)	Color	Tensile strength retention-days	Application
PGA	Polyglycolic Acid	Braided	10/0-#2	Violet	28-35	OB/GYN, Ophthalmic Orthopedic Surgery General Surgery
PDO	Polydioxanone	Mono.	6/0-#1	Violet	55-65	Fascia Ped Cardiovascular Orthopedic Surgery
RPGA	Polyglycolic Acid	Braided	5/0-2/0	Biege	8-12	Episiotomy G,U,Oral

Non-Absorbable








Brand Name	Material	Structure	Range of sizes(USP)	Color	Tensile strength retention-days	Application
POLYPROPYLENE	Polypropylene	Mono.	8/0-#2	Dark Blue	Long Period	Vessel Subcuticular
NYLON	Nylon	Mono.	10/0-#3	Blue/ Black	Long Period	Plastic Subcuticular Orthopedic Surgery General Surgery
POLYESTER	Polyester	Braided	7/0-#2	Green/ White	Long Period	Ophthalmic
SILK	Silk	Braided	8/0-#3	Black	Two Years	Variety Operations

Latter items are common products, not limited























Polyglycolic Acid

Needle Description	Length	Application	USP Size					
			10-0	9-0	8-0	7-0	6-0	5-0
  6.4mm 3/8 6.2mm Spatula Double	30/38cm	Ophthalmic	GA8063D		G88063D	G78063D		
 8mm 3/8 1/4 Spatula Double	45cm	Ophthalmic					G68083D G68084D	G58083D G58084D

Polyglycolic Acid


Needle Description	Length	Application	USP Size							
			7-0	6-0	5-0	4-0	3-0	2-0	0	#1
 12mm 3/8 R.Cut ▽	45cm	Plastic	G73123	G63123	G53123					
 16mm 3/8 R.Cut ▽	45cm 70cm	Plastic/ subcuticular			G53163	G43163 G43163L	G33163			
 19mm 3/8 R.Cut ▽	45cm 75cm	Plastic/ subcuticular				G43193 G43193L	G33193 G33193L			
 24mm 3/8 R.Cut ▽	75cm	Subcuticular					G33243 G33243L G33243S			
 30mm 3/8 R.Cut ▽	75cm	OB/ GYN						G23303		
 37mm 3/8 R.Cut ▽	90cm	OB/ GYN							G13372	
 40mm 1/2 R.Cut ▽	90cm	OB/ GYN								GB3402

Polyglycolic Acid


Needle Description	Length	Application	USP Size							
			6-0	5-0	4-0	3-0	2-0	0	#1	#2
 13mm 1/2 Taper 	75cm	Plastic/ subcuticular	G61132	G51132						
 18mm 1/2 Taper 	75cm	G.U./ Oral/ Ped./ G.I			G41182					
 20mm 1/2 Taper 	75cm 90cm	G.I/ GYN/ Ped.			G41202 G41202L					
 22mm 1/2 Taper 	75cm	G.I/ GYN/ Ped.				G31222				
 26mm 1/2 Taper 	75cm	OB/ GYN/ Hemia Repair				G31262 G31262D G31262L	G21262			
 30mm 1/2 Taper 	75cm	G.U./ OB/ GYN					G21302	G11302		
 37mm 1/2 Taper 	90cm	G.U./ OB/ GYN					G21372	G11372	GB1372	
 40mm 1/2 Taper 	90cm 150cm	OB/ GYN				G31402	G21402 G21402L	G11402	GB1402 GB1402L	GC1402
 46mm 1/2 Taper 	90cm	Tissues Closure							GB1462	
 48mm 1/2 Taper 	90cm	OB/ GYN							GB1482	GC1482
 64mm 3/8 BL 	90cm	Hepatic						G12643		

Polyglycolic Acid

Double Needles With Double Threads

	Type		USP	Thread Length	Needle Description	Needle Length
	GX3048	Thread No.1	2-0	75cm	Reverse Cutting	30mm
		Thread No.2	1#	90cm	Taper	48mm
	GX2437	Thread No.1	3-0	75cm	Reverse Cutting	24mm
		Thread No.2	1#	90cm	Taper	37mm
	GX2440	Thread No.1	4-0	45cm	Cutting 3/8	24mm
		Thread No.2	2-0	90cm	Taper 1/2	40mm
	GX2440L	Thread No.1	4-0	45cm	Cutting 3/8	24mm
		Thread No.2	2-0	150cm	Taper 1/2	40mm
	GX3740	Thread No.1	2-0	45cm	Cutting 1/2	37mm
		Thread No.2	2-0	90cm	Taper 1/2	40mm
	GX4040	Thread No.1	0#	90cm	Cutting	40mm
		Thread No.2	2-0	90cm	Taper	40mm

Double Needles With Single Thread

				Needle No.1		Needle No.2	
	G22437	2-0	150cm	Reverse Cutting	24mm	Taper 1/2	37mm
	G23040	2-0	150cm	Cutting 3/8	30mm	Taper 1/2	40mm
	G24040	2-0	150cm	Taper 1/2	40mm	Taper 1/2	40mm
	G23540	2-0	135cm	Cutting 3/8	35mm	Taper 1/2	40mm
	G14040	1-0	150cm	Taper 1/2	40cm	Taper 1/2	40mm
	GB3740	1#	120cm	Taper 1/2	37mm	Taper 1/2	40mm
	G13737	1-0	150cm	Reverse Cutting 3/8	37mm	Taper 1/2	37mm





















Pre-cut PGA

Length Application USP Size









2-0	0	#1
G2015001	G1015001	GB015001

























Polyglycolic Acid

Needle Description	Length	Application	USP Size			
			5-0	4-0	3-0	2-0
 13mm 3/8 R.Cut 	45cm	Skin/ subcuticular	K53133 K53123			
 16mm 3/8 R.Cut 	75cm	Skin/ subcuticular	K53163	K43163		
 19mm 3/8 R.Cut 	75cm	Skin subcuticular		K43193	K33193	
 24mm 3/8 R.Cut 	75cm	Skin/ subcuticular			K33243	
 35mm 1/2 Taper 	135cm	OB/ GYN				K21352D
 37mm 1/2 Taper Cut 	90cm	Tissues Closure				K27372
 24mm 3/8 R.Cut   37mm 1/2 Taper 	150cm	OB/ GYN				K22437
 37mm 1/2 40mm Taper 	90cm	OB/ GYN				K21372 K21402
 35mm 1/2 R.Cut 	135cm	OB/ GYN				K23352L

Polydioxanone Mono.

Needle Description	Length	Application	USP Size						
			6-0	5-0	4-0	3-0	2-0	0	#1
 13mm 1/2 Taper Double ○	70cm	Ped Surgery	D61132D	D51132D					
 13mm 1/2 Taper ○	45cm	G.U./Ped Surgery	D61132						
 16mm 3/8 Taper ○	70cm	G.U./G.I./Ped Surgery		D51163					
 19mm Straight Taper Double ○	35cm	Orthopedic Surgery			D41190D				
 30mm 1/2 Taper ○	70cm	Orthopedic Surgery					D21302		
 40mm 1/2 Taper ○	90cm	G.I./Ped Surgery						D11402	DB1402
 40mm 1/2 Taper Heavy ○	150cm Loop	Orthopedic Surgery						D11402P	
 48mm 1/2 Taper ○	150cm Loop	Orthopedic Surgery						D11482P	
















Polypropylene

Needle Description	Length	Application	USP Size						
			8-0	7-0	6-0	5-0	4-0	3-0	2-0
 8mm 3/8 Taper 	60cm	Cardiovascular	P81083D	P71083D	P61083D				
 10mm 3/8 Taper 	60cm	Cardiovascular		P71103D					
 11mm 3/8 Taper 	75cm	Cardiovascular	P81113D						
 12mm 3/8 R.Cut 	45cm	Cardiovascular		P73123		P53123			
 13mm 1/2 Taper 	75cm	Cardiovascular			P61132D	P51132D			
 18mm 1/2 Taper 	90cm	Cardiovascular				P51182D	P41182D P43193	P31182D	
 20mm 1/2 Taper Cut 	90cm	Cardiovascular					P47202D		
							P41202D	P31202D	
 22mm 1/2 Taper Cut 	90cm	Cardiovascular						P37222D	
 24mm 1/2 R.Cut 	90cm	Cardiovascular						P33243	
 26mm 1/2 Taper 	90cm	Cardiovascular						P31262D	P21262D P27252D
 38mm 3/8 Taper Cut 	90cm	Ventricular Aneurysmectomy							USP 0 P17383D P11383D















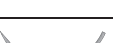

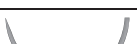

Bowtie Package (Patented)















Polyester

Needle Description	Color	Length	Application	USP Size			
				4-0	3-0	2-0	0
 12/13mm 3/8 Taper 	Green	45/75cm	Septal Defect Rep.	E41122D E41122DT			
 15mm 3/8 Taper 	Green	90cm + Pledget	Septal Defect Rep.	E41153D E41153DT			
 17/18mm 1/2 Taper 	Green	90cm	Aortic valve surgery Septal Defect Rep.		E31182D		
	Green/ White	75cm + Pledget				E21182DWT E21182DGT	
	Green	90cm + Pledget				E21182DGTL	
 20mm 1/2 Taper 	Green	90cm	Aortic valve surgery Septal Defect Rep.	E41202D E41202DT			
	Green/ White	75cm + Pledget				E21202DGT E21202DWT	
	Green/ White	90cm				E21202DGL E21202DWL	
 22mm 1/2 Taper 	Green	90cm	Aortic valve surgery Septal Defect Rep.		E31222D		
	Green/ White	75cm + Pledget				E21222DGT E21222DWT	
	White	75cm + Pledget		E41222DT	E31222DT		
 26mm 1/2 Taper  Taper Cut 	Green	75cm + Pledget	Aortic valve surgery Septal Defect Rep.			E21262DGT E21262DWT	
	Green	90cm				E21262DL	
 13mm 3/8 R.Cut 	Green	45/60cm	Ophthalmic	E43133			

Suture with pledget (3mm×3mm×1.5mm or 3mm×6mm×1.5mm) Packed in green and white colors where shown.

Mono.Nylon













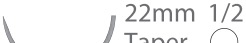

















Needle Description	Length	Application	USP Size					
			10-0	9-0	8-0	7-0	6-0	5-0
 6.4mm 3/8 Spatula 	30/38cm	Cataract Corneal Surgery	NA8063D	N98063D	N88063D	N78063D		
 8mm 1/4 Spatula 	45cm	Ophthalmic						N58084D
 9/10mm 3/8 R.Cut 	30/45cm	Plastic				N73103D		N53103
 11mm 3/8 Taper 	45cm	Plastic				N71113		
 12mm 3/8 R.Cut 	45cm	Plastic				N73123	N63123	
 13mm 3/8 Spatula 	45cm	Ophthalmic						N58133D
 15/16mm 3/8 R.Cut 	45cm	Blepharoplasty					N63153	N53163
 19mm 1/2 R. Cut 	45cm	Blepharoplasty					N63192	

Needle Description	Length	Application	USP Size		
			4-0	3-0	2-0
 15/16mm 3/8 R.Cut 	45cm	Blepharoplasty	N43143		
 19mm 3/8 R.Cut 	45cm	Subcuticular	N43193	N33193	
 19mm 1/2 R.Cut 	45cm	Blepharoplasty	N43192		
 24mm 3/8 R.Cut 	45cm	Subcuticular		N33243	N23243
 30mm 3/8 R.Cut 	75cm	Subcuticular			N23203
 37mm 1/2 R.Cut 	75cm	Subcuticular			N23372
 40mm 3/8 R.Cut 	100cm	Subcuticular		N23403	



Bowtie Package (Patented)

Braided Silk

Needle Description	Length	Application	USP Size						
			6-0	5-0	4-0	3-0	2-0	0	#1
 9mm 3/8 R.Cut 	45cm	Skin/Subcuticular	S63093						
 10mm 3/8 R.Cut 	45cm	Skin/Subcuticular	S63103						
 12/13mm 3/8 Taper 	45cm	G.I./Ped Surgery	S61123						
 15/16mm 3/8 Taper 	45cm	G.I./Ped Surgery		S51153	S41153				
 18mm 3/8 Taper 	45cm	Skin/Subcuticular G.I./Ped Surgery		S53153 S53163	S43153				
 19mm 3/8 R.Cut 	45cm	G.I./Ped Surgery		S53193	S43193				
 22mm 1/2 Taper 	75/60cm	G.I./Ped Surgery			S41222	S31222			
 22mm 3/8 R.Cut 	60/45cm	Skin/Subcuticular			S43222	S33222			
 25mm 3/8 R.Cut 	60/45cm	Subcuticular			S43253	S33253	S23253		
 26mm 1/2 Taper 	75/60cm	G.I./Ped Surgery			S41262	S31262	S21262		
 31mm 3/8 R.Cut 	75/60cm	Skin/Subcuticular				S33313	S21302 S23313		
 36mm 3/8 R.Cut 	75/60cm	Skin/Subcuticular				S33363		S13363	SB3363
 37mm 1/2 Taper 	60/45cm	Skin/Subcuticular				S31372			
 44mm 1/2 Taper 	90/75cm	G.I./Ped Surgery							SB1442
 46mm 3/8 R.Cut 	90cm	OB/GYN					S23463		

Pre-cut Silk

Length	Application	USP Size				
		4-0	3-0	2-0	0	#1
60cm×20	General Surgery	S4006020	S3006020	S2006020	S1006020	SB006020
45cm×15	General Surgery	S4004515	S3004515	S2004515	S1004515	SB004515
75cm×10	General Surgery	S4007510	S3007510	S2007510	S1007510	SB007510

Pre-cut Nylon

Length	Application	USP Size					
		6-0	5-0	4-0	3-0	2-0	0
45cm×10	General Surgery		N5004510	N4004510	N3004510		
75 cm×10 (Braided Nylon)	General Surgery			N4007510	N3007510	B2007510	
45cm×10	Plastic Surgery	N6004510					

Tensile Strength

※Data Sources:YY-1116-2002

Size	Class 1			Class 2	
	Average Value		Minimum Value	Minimum Value	
	N	KGF	N	N	KGF
10-0	—	—	—	0.25	0.025
9-0	—	—	—	0.49	0.050
8-0	0.44	0.045	0.25	0.69	0.070
7-0	0.69	0.070	0.54	1.37	0.140
6-0	1.76	0.180	0.98	2.45	0.250
5-0	3.72	0.380	1.96	6.66	0.680
4-0	7.54	0.769	3.92	9.31	0.950
3-0	12.25	1.250	6.66	17.35	1.770
2-0	19.60	2.000	10.19	26.26	2.680
1-0	27.14	2.769	14.21	38.22	3.900
1	37.24	3.800	19.10	49.78	5.080
2	44.20	4.510	23.52	62.23	6.350

Strength of Needle Attachment

※Data Sources:YY-1116-2002

Size	Average Value		Minimum Value
	N	KGF	N
10-0	0.1	0.014	0.10
9-0	0.2	0.021	0.15
8-0	0.5	0.050	0.24
7-0	0.8	0.080	0.39
6-0	1.7	0.170	0.78
5-0	2.3	0.230	1.08
4-0	4.4	0.450	2.25
3-0	6.7	0.680	3.33
2-0	10.8	1.102	4.41
1-0	14.7	1.500	4.41
1	17.6	1.796	5.88
2	17.6	1.796	6.86

Suture With Needle

The 1 st Figure	Letter	Material
The 2 nd Figure	16 carry digit	USP
The 3 rd Figure	16 carry digit	Needle Tip
The 4 th and 5 th Figure	Number	Needle Length
The 6 th Figure	Number	Needle Curve
The 7 th Figure	Letter	Subsidiary
For Example:GB1402 PGA 0# taper point 40 mm needle 1/2 curve		

Suture Without Needle

The 1 st Figure	Letter	Material
The 2 nd Figure	16 carry digit	USP
The 3 rd Figure	0	Without Needle
The 4 th and 6 th Figure	Number	Thread Length
The 7 th and 8 th Figure	Number	Thread Amount
The 9 th Figure	Letter	Subsidiary
For Example:S3006030Q Imported Silk Thread 3/0,Precut 60 cm,30 pieces in a Packet		

For Example			G	2	1	40	2
First Figure:Thread Material			Second Figure:USP		Third Figure:Needle Tip		
G	Polyglycolic Acid	1	1-0	1	Taper		
D	Polydioxanone	2	2-0	2	Blunt Point		
K	Rapid PGA	3	3-0	3	Reverse Cutting		
S	Silk	4	4-0	4	Cutting		
N	Nylon	5	5-0	5	Diamond		
B	Braided Nylon	6	6-0	6	Premium Cutting		
P	Polypropylene	7	7-0	7	Taper-cut		
E	Polyester	8	8-0	8	Spatula/Lancet		
L	Plain Gut	9	9-0	9	Square		
C	Chromic Gut	A	10-0	A			
W	Steel	B	#1	B			
M	Memory Steel	C	#2	C			
		D	#3				
Fourth and Fifth Figure:Needle Length			Sixth Figure:Needle Curve		Seventh Figure and Latter:Subsidiary		
Unit:MM			2=1/2		D Double		
			3=3/8		T Pledget		
			4=1/4		K Clip		
			5=5/8		P Loop		
					G Green		
					W White		
					L Longer thread		
					Q high Quality		
					S Short		

WCS Healthcare commitment:

1. We conduct our business with integrity, governed by strong ethical values.
 2. We promote high quality products that are of the quality and standard of current market leaders.
 3. All our promoted products are 510K approved and, certified with a CE mark, ISO13485 and local approvals where required.
 4. We believe that an efficient and reliable logistical service is critical to a long lasting partnership with our customers and as such, allocate significant company resources to make sure products arrive to the customer in a timely and accurate manner.
 5. We are committed to offer best value for money products, so that our customers can afford to use high quality products and improve patient's lives.
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