

	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

1. Product Information

1.1 General Product Name:

Damalene and POLYPROPYLENE

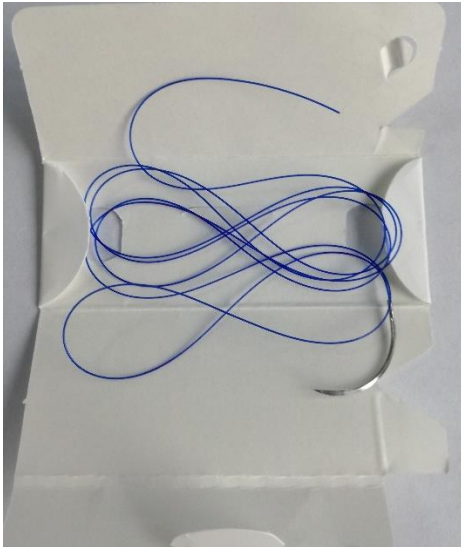
Sterile, Single Use, Non-Absorbable, Synthetic, Monofilament, Polypropylene Surgical Suture

1.2.Code:

GMDN CODE: 13909

Categories / KATEGORİLERİ: (03-Dental Devices 10- Single use Medical Device)

1.3. Product Images



	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

1.4.Intended use of the product:

Surgical sutures are sterile threads that are attached to needle and are used for surgical procedures.

DAMALENE, POLYPROPYLENE sutures are indicated for use in soft tissue approximation and/or ligation, including ophthalmic procedures. Surgical suture is a medical device used to hold body tissues together after an injury or surgery.

It is used for closing and covering suturable wounds under sterile conditions by initially suturing and stapling the wound.

1.5. Patient Populations

The patients are used for all people who are needed to ligate, close and cover suturable wounds under sterile conditions by initially suturing the wound due to cardiovascular, gastrointestinal, obstetric and gynecologic, urologic and ophthalmic surgery.

1.6. Intended User

The device should be used by physician and/or surgeons.

1.7. Repeat Applications, Including Any Restrictions as to the Number or Duration of Reapplications

After surgery, the closing and covering can be repeated if an undesirable case would be occurred and/or the wound would open. There is not any restriction as to the number or duration of reapplications.

The device is only single used.

1.8. Mechanism of Action

DAMALENE sutures elicit minimal acute inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue. Polypropylene monofilament surgical suture is not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

DAMALENE sutures are not subject to degradation or weakening by tissue enzymes. They are extremely inert in tissue and have been found to retain tensile strength for periods of as long as two years in vivo. Polypropylene sutures cause minimal tissue reaction and hold knots better than most other synthetic monofilament materials.



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

1.9. Product Description

DAMALENE, POLYPROPYLENE Blue colored sutures are available in a range of gauge sizes and lengths, non-needle or attached to stainless steel needles of varying types and sizes.

The product range of SUTURE varies as the diameter of sterile non-absorbable surgical suture strands from 0,020 mm to 0,599 mm. The length of sterile PP surgical suture strands varies from 30 cm to 500 cm. The length of needles varies from 6 mm to 50 mm. The shape of needles varies from 3/8 circle ¹/₂ circle Straight J shaped, Spatulaetc. The different variants are listed in the PRODUCT LIST of DAMALENE, POLYPROPYLENE

6.0. Diğer Sütürler (Örn.Polyamide, Polypropilen)									
USP	MET RIC	DIAMETER (µm)				KPTS (Newton)		NPSS (Newton)	
		AVERAGE	MIN	MAX	AVG.	MIN.	AVG.	MIN.	
5	7	700	799	665	839	112	45	18	7
4	6	600	699	570	734	90	32	18	7
3	6	600	699	570	734	90	32	18	7
2	5	500	599	475	629	51	22	18	7
1	4	400	499	380	524	40	15	18	6
0	3.5	350	399	333	419	31	13	14	4.5
2-0	3	300	399	285	419	18	9	11	4.5
3-0	2	200	249	190	261	13.6	3	6.8	3.4
4-0	1.5	150	199	143	209	8	1.5	4.5	2.3
5-0	1	100	149	95	156	4.1	1	2.3	1.10
6-0	0.7	70	99	67	104	2.1	0.6	1.7	0.8
7-0	0.5	50	69	48	72	1.6	0.40	0.8	0.4
8-0	0.4	40	49	38	51	1.1	0.3	0.5	0.25
9-0	0.3	30	39	29	41	0.7	0.2	0.21	0.15
10-0	0.2	20	29	19	30	0.6	0.1	0.14	0.10

*According to the size of the strands that meets all the requirements of the European Pharmacopoeia (EP) for Synthetic Non-Absorbable Monofilament Sutures and the requirements of United States Pharmacopoeia (USP) Non-Absorbable Sutures except for a slight oversize in diameter

One package unit of DAMALENE, POLYPROPYLENE contains 12 single pouches.



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

1.10. Raw Materials Suppliers of product:

Manufacturer/Supplier	Material
G. Krahmer GmbH MZF4	Polypropylene
Quality Needles Pvt Co.	Stainless Steel 302 (Serialnumber)
FTM Ambalaj	Second packing (medical paper)
Kurşun Ambalaj	First packing (aluminum Foil)
Panograf Kağıt Ltd Şti	Paper (card)

1.10.1. Accessories Information **There are no accessories.**

1.10.2. Suitability of Raw Material

Raw materials are supplied from the suppliers given in above table. Raw materials analysis reports are given in Test Reports

2. Indication, Contraindication and Adverse Reactions

Indications:

DAMALENE, POLYPROPYLENE sutures are indicated for use in Gastrointestinal Surgery, obstetric and gynecologic surgery and urological surgery, soft tissue approximation and/or ligation, including ophthalmic procedures. Damalene sutures are indicated for use in cardiovascular surgery .

Contraindications:

DAMALENE, POLYPROPYLENE, being not absorbable should not be used where extended approximation of tissue under stress is required. There are not known any other contraindications of DAMALENE, POLYPROPYLENE polypropylene monofilament sutures.

Adverse Reactions

Adverse effects associated with the use of this device include wound dehiscence, failure to provide wound support in closure of the abdomen, chest, joints and other sites where expansion, stretching or distension occur. Failure to provide adequate wound support in elderly, malnourished or debilitated patients, or in patients suffering from cancer, anemia, obesity, diabetes, infected or other conditions which may delay wound healing, enhance bacterial infectivity, minimal acute inflammatory tissue reaction, localized irritation when skin closures are left in place for greater than seven days, calculi formation in urinary and biliary tracts when prolonged contact with salt solutions, such as urine and bile occurs, and pain, edema and at the wound site.



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

3. RAW Material Specifications:

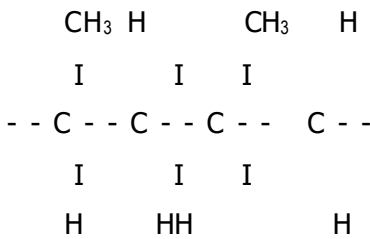
3.1. Thread:

Polypropylene, non-absorbable, monofilament, blue color

Appearance:

The polypropylene non-absorbable suture is composed of synthetic monofilament materials for the intended size to meet current USP specifications. The polypropylene has been dyed blue. Blue colored for easy identification during Surgery.

Formula of polypropylene polimer



Additives:

The quantity of color additive is not to exceed 0.5 % by weight of the suture


Dyestuffs

Blue colored threads

Chemical name: Phthalocyanines (-2)) copper in accordance with FDA requirements Reference: Federal Register, title 21,74.3045

Coating

Uncoated

	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

Physical Specification

DAMALENE, POLYPROPYLENE braids meet all requirements established by the United States Pharmacopoeia (USP) and the European Pharmacopoeia (EP) except for diameter.

**Knot pull tensile strength linear pull tensile strength for non-sterile braid
USP 29 NF24 Page 2050**

USP Size	Metric Size (gauge no.)	Limits on Average Diameter (mm)		Limits on Average Knot-Pull (except where otherwise specified) ^a Tensile Strength (in kgf) ^b			Limits on Average Knot-Pull (except where otherwise specified) ^a Tensile Strength (in N) ^b		
		Min.	Max.	Class I Min.	Class II Min.	Class III Min.	Class I Min.	Class II Min.	Class III Min.
12-0	0.01	0.001	0.009	0.001 ^a	—	0.002 ^a	0.01 ^a	—	0.02 ^a
11-0	0.1	0.010	0.019	0.006 ^a	0.005 ^a	0.02 ^a	0.06 ^a	0.05 ^a	0.20 ^a
10-0	0.2	0.020	0.029	0.019 ^a	0.014 ^a	0.06 ^a	0.194 ^a	0.14 ^a	0.59 ^a
9-0	0.3	0.030	0.039	0.043 ^a	0.029 ^a	0.07 ^a	0.424 ^a	0.28 ^a	0.68 ^a
8-0	0.4	0.040	0.049	0.06	0.04	0.11	0.59	0.39	1.08
7-0	0.5	0.050	0.069	0.11	0.06	0.16	1.08	0.59	1.57
6-0	0.7	0.070	0.099	0.20	0.11	0.27	1.96	1.08	2.65
5-0	1	0.10	0.149	0.40	0.23	0.54	3.92	2.26	5.30
4-0	1.5	0.15	0.199	0.60	0.46	0.82	5.88	4.51	8.04
3-0	2	0.20	0.249	0.96	0.66	1.36	9.41	6.47	13.3
2-0	3	0.30	0.339	1.44	1.02	1.80	14.1	10.0	17.6
0	3.5	0.35	0.399	2.16	1.45	3.40 ^a	21.2	14.2	33.3 ^a
1	4	0.40	0.499	2.72	1.81	4.76 ^a	26.7	17.8	46.7 ^a
2	5	0.50	0.599	3.52	2.54	5.90 ^a	34.5	24.9	57.8 ^a
3 and 4	6	0.60	0.699	4.88	3.68	9.11 ^a	47.8	36.1	89.3 ^a
5	7	0.70	0.799	6.16	—	11.4 ^a	60.4	—	112 ^a
6	8	0.80	0.899	7.28	—	13.6 ^a	71.4	—	133 ^a
7	9	0.90	0.999	9.04	—	15.9 ^a	88.6	—	156 ^a
8	10	1.00	1.099	—	—	18.2 ^a	—	—	178 ^a
9	11	1.100	1.199	—	—	20.5 ^a	—	—	201 ^a
10	12	1.200	1.299	—	—	22.8 ^a	—	—	224 ^a

^a The tensile strength of sizes smaller than USP size 8-0 (metric size 0.4) is measured by straight pull. The tensile strength of sizes larger than USP size 2-0 (metric size 3) of monofilament Class III (metallic) Nonabsorbable Surgical Suture is measured by straight pull.
Silver wire meets the tensile strength values of Class I Sutures but is tested in the same manner as Class III Sutures.

^b The limits on knot-pull tensile strength apply to Nonabsorbable Surgical Suture that has been sterilized. For nonsterile Sutures of Class I and Class II, the limits are 25% higher.

Table 1 Standard Needle Attachment for Absorbable and Nonabsorbable Sutures

Absorbable Collagen Suture	Metric Size (Gauge No.)		USP Size	Limits on Needle Attachment			
	Nonabsorbable and Synthetic Absorbable Sutures			Average (in kgf) (Min.)	Individual (in kgf) (Min.)	Average (in N) (Min.)	Individual (in N) (Min.)
	0.1		11-0	0.007	0.005	0.069	0.049
	0.2		10-0	0.014	0.010	0.137	0.098
	0.3		9-0	0.021	0.015	0.206	0.147
0.4	0.4		8-0	0.050	0.025	0.490	0.245
0.5	0.5		7-0	0.080	0.040	0.784	0.392
0.7	0.7		6-0	0.17	0.08	1.67	0.784
1	1		5-0	0.23	0.11	2.25	1.08
1.5	1.5		4-0	0.45	0.23	4.41	2.25
2	2		3-0	0.68	0.34	6.67	3.33
3	3		2-0	1.10	0.45	10.8	4.41
3.5	3.5		0	1.50	0.45	14.7	4.41
4	4		1	1.80	0.60	17.6	5.88
5	5 and larger		2 and larger	1.80	0.70	17.6	6.86



Damalene, POLYPROPYLENE	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Technical Data Sheet		Issue Date	08.07.2016

Retention ratio of tensile strength

Polypropylene monofilament surgical suture is not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

3.2. NEEDLE:

Needle material is made from stainless steel AISI 302 and meets the internationally accepted specifications of surgically used metals
For Analysis Certificates see Test Reports

Tipping solution : none

3.3. Specification of primary and secondary packaging material

Primary packaging material is made of Aluminum foil

Secondary packaging material is made from a pouch made of medical paper
For Analysis Certificates see Test Reports

4. Biological and Toxicological Evaluation

The following section contains information on the preclinical evaluation of the raw materials and the toxicological and biocompatibility tests on the sterile finished product DAMALENE, POLYPROPYLENE (Clinical and Biological Evaluation)

4.1. Biocompatibility Tests of the Raw Materials for Medical Device (ISO10993-1:2009)

Specific safety evaluation programs follow International Organization for Standardization (ISO) 10993 standards and Food and Drug Administration (FDA) guidance (May 1, 1995). The table below is based on ISO 10993-1 Evaluation and testing, 2009 edition. The crosses (X) indicate data endpoints that can be necessary for a biological safety evaluation per ISO 10993-1, based on a risk analysis. Where existing data are adequate, additional testing is not required. (Clinical and Biological Evaluation)



Gmd Group Medikal San. ve Tic. A.Ş Rev Date 30.08.2024 Damalene, POLYPROPYLENE	Ref No.	DE-05
	Rev No.	06
	Issue Date	08.07.2016

Biocompatibility Test Matrix

DEVICE CATEGORIES		BIOLOGICAL EFFECT													
			Cytotoxicity	Sensitization	Irritation/Intracutaneous	Acute	Systemic Toxicity	Subchronic Toxicity	Genotoxicity	Implantation	Hemocompatibility	Chronic Toxicity	Carcinogenicity	Reproductive/Developmental	
SURFACE DEVICES	Skin	A	x	x	x										
		B	x	x	x										
		C	x	x	x										
	Mucosal Membrane	A	x	x	x										
		B	x	x	x										
		C	x	x	x		x	x							
	Breached or Compromised Surfaces	A	x	x	x										
		B	x	x	x										
		C	x	x	x		x	x							
EXTERNALLY COMMUNICATING DEVICES	Blood Path, Indirect	A	x	x	x	x					x				
		B	x	x	x	x					x				
		C	x	x		x	x	x			x				
	Tissue/Bone/Dentin Communicating	A	x	x	x										
		B	x	x	x	x	x	x	x						
		C	x	x	x	x	x	x	x						
	Circulating Blood	A	x	x	x	x						x			
		B	x	x	x	x	x	x	x	x					
		C	x	x	x	x	x	x	x	x					
IMPLANT DEVICES	Tissue/Bone	A	x	x	x										
		B	x	x	x	x	x	x	x						
		C	x	x	x	x	x	x	x						
	Blood	A	x	x	x	x	x	x	x	x					
		B	x	x	x	x	x	x	x	x					
		C	x	x	x	x	x	x	x	x					

In compliance with the standard EN ISO 10993-1, Table 1, the biocompatibility classification of our product and the tests required in accordance are determined as below:

The results of the biocompatibility tests on Sterile, Single Use, Non Absorbable, Synthetic, Monofilament, Polypropylene Surgical suture demonstrate the excellent biocompatibility of the material and also demonstrate that the ETO sterilization does not have any negative effects on the material



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

Based on the clinical experiences with the product DAMALENE, POLYPROPYLENE, the material documentation as well as the biocompatibility test results on the end product, the material used for the manufacturing of the surgical suture and the final product DAMALENE can be regarded as biocompatible and suitable for a clinical application.

4.2. Biodegradation for Medical Device DAMALENE, POLYPROPYLENE

Sterile, Single Use, Non-Absorbable, Synthetic, Monofilament, Polypropylene Surgical Suture is not absorbed, progressive degradation in vivo may result in gradual loss of the sutures tensile strength over time.

5. Product references and sizes

CODE	BARCODE	MATERIAL	PRODUCT NAME AND DESCRIPTION
DE02K40	8681677072662	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 40mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE02KD45	8681677070422	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 45mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE02M40	8681665009649	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0K30	8681677070934	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 30mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE0K36	8681677070521	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 36mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE0K40	8681677070989	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 40mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE0KDN25	8681677070064	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 25mm 1/2 CIRCLE NORMAL CUTTING EDGE NEEDLE
DE0M30	8681677070514	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0M36	8681677070897	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 36mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0M40	8681665009625	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0M40-100	8681677074697	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE1K36	8681677070439	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 36mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE1K40	8681677071009	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 40mm 3/8 CIRCLE REVERSE CUTTING NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE1M36	8681677070330	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 36mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE1M40	8681665009632	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE1M40-45	8681677072167	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2K26	8681665009663	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE2K30	8681677072105	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 30mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE2KD22	8681665009656	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 22mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE2KD22-150	8681677073874	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 2-0 (BLUE) 22mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE2M25	8681677070385	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2M26	8681665009670	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2M30	8681677072099	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2SK60	8681677072242	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 60mm STRAIGHT REVERSE CUTTING NEEDLE
DE3K19	8681677072082	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE3K20	8681677073461	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 20mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE3K26	8681665009687	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE3M17-D-90	8681677070095	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE3M20	8681665009700	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE3M22	8681677072068	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 22mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE3M26	8681677070200	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE3M26-D-90	8681665009694	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE3M30	8681677072075	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE3SK60	8681677074062	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 60mm STRAIGHT



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			REVERSE CUTTING NEEDLE
DE4K16	8681677070903	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 16mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4K20	8681677071023	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 20mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4K26	8681677075670	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4KD16	8681665009731	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 16mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE4M13	8681665009724	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE4M13-D-90	8681665009717	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE4M16	8681665009748	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 16mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE4M16-D-90	8681677070026	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 16mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE4M17	8681677070392	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE4M17-D-90	8681677070163	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE4M20	8681677070910	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE4M20-D	8681677070248	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE4M20-D-90	8681677070170	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE4M26	8681665009755	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE4M26-D-90	8681677070187	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE5K13	8681677070750	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE5K16	8681665009786	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 16mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE5M13	8681677070323	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE5M13-D	8681665009762	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE5M16	8681677072051	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 16mm 1/2 CIRCLE ROUND BODY T.P NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE5M16-D	8681677071016	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 16mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE5M17	8681677070552	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE5M17-D	8681665009779	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE6K10	8681677070255	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 10mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE6K13	8681677070415	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE6K13-D	8681677075694	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE REVERSE CUTTING DOUBLE NEEDLE
DE6K16	8681677070958	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 16mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE6M11-D	8681677075700	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 11mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE6M13	8681677070767	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE6M13-D	8681677072044	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE4M18	8681677075847	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0K35	8681677075885	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 35mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE1M40-100	8681677076172	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2M20	8681677076189	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2K20	8681677076196	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 20mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE6M16	8681677076202	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 16mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE1M37	8681677076240	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 37mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE1K30	8681677076585	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 30mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE1M30	8681677076608	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE3M20-D-90	8681677076615	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE1K45	8681677077070	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 45mm 3/8 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			REVERSE CUTTING NEEDLE
DE0M35	8681677077063	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 35mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE1M45	8681677077100	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 45mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE6M10-D	8681677077087	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE6K10-D	8681677077094	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 10mm 3/8 CIRCLE REVERSE CUTTING DOUBLE NEEDLE
DE02M45	8681677077117	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 45mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE02K45	8681677077124	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 45mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE3K30	8681677077131	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 30mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4K19	8681677077186	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE3K24	8681677077193	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 24mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE2K36	8681677077209	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 36mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE2M30-D-90	8681677077414	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE3M26-90	8681677077421	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE5K19	8681677077445	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE5K16-D	8681677077773	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 16mm 3/8 CIRCLE REVERSE CUTTING DOUBLE NEEDLE
DE2SK55-90	8681677077841	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 55mm STRAIGHT REVERSE CUTTING NEEDLE
DE3M26-D	8681677077889	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE6K17-45	8681677078046	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 6-0 (BLUE) 17mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4K22-45	8681677078053	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 4-0 (BLUE) 22mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE2M26-90	8681677078091	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2M30-90	8681677078060	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE1M45-100	8681677078077	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 1 (BLUE) 45mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0M45-100	8681677078107	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 0 (BLUE) 45mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE5K19-45	8681677078084	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 5-0 (BLUE) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE1M26	8681677078138	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE0M26	8681677078145	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE3DS18	8681677078398	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 18mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4DS17	8681677078404	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 17mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE5DS17	8681677078411	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 17mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE2HSY24	8681677078473	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 24mm 1/2 CIRCLE TAPER CUT NEEDLE
DE4HR27	8681677078459	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 27mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE2GC60	8681677078466	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 60mm STRAIGHT NORMAL CUTTING NEEDLE
DE2HS24	8681677078480	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 24mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE2DS24	8681677078695	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 24mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE4HR17-D	8681677079081	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DS22	8681677079456	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 22mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30HR23	8681677079463	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 23mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30DS23	8681677079470	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 23mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40HR22	8681677079487	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 22mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE50DS15-45	8681677079579	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 5-0 (BLUE) 15mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE50DS16-45	8681677079586	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 5-0 (BLUE) 16mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40DR20-D	8681677079722	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 20mm 3/8 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			ROUND BODY T.P DOUBLE NEEDLE
DE50DR17-D-90	8681677079739	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 17mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR13-D-90	8681677079746	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20HRT17-D-90	8681677079753	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 17mm 1/2 CIRCLE TAPER CUT DOUBLE NEEDLE
DE20HRT26-D-90	8681677079760	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 26mm 1/2 CIRCLE TAPER CUT DOUBLE NEEDLE
DE50HR16-D-90	8681677079777	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 16mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR13-D-60	8681677079784	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60HR13-D-60	8681677079791	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE2M26-D-90	8684154200138	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DS16	8684154200596	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE DYED) 16mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40DS19	8684154200602	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE DYED) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40HS17	8684154200619	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 17mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE40HS20	8684154200626	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 20mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE40HRT18	8684154200633	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 1/2 CIRCLE TAPER CUT NEEDLE
DE40HR17	8684154200640	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE DYED) 17mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40HR20	8684154200657	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE DYED) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40DS16-45	8684154200770	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 4-0 (BLUE) 16mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40DS18	8684154200848	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE50DS18	8684154200855	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 18mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE50DS20	8684154200862	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 20mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE60DC16-45	8684154201029	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 6-0 (BLUE) 16mm 3/8 CIRCLE NORMAL CUTTING NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE60DRT12-45	8684154201074	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 6-0 (BLUE) 12mm 3/8 CIRCLE TAPER CUT NEEDLE
DE00DS40-90	8684154201654	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 0 (BLUE) 40mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE01HR40-90	8684154201661	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE20DS30-90	8684154201678	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 30mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30DS26-90	8684154201685	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40DS24	8684154201715	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 24mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE60DS19	8684154201722	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE01DS40-90	8684154201777	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 1 (BLUE) 40mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE00HR40-90	8684154201784	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00HC36-D-100	8684154201821	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 0 (BLUE) 36mm 1/2 CIRCLE NORMAL CUTTING EDGE DOUBLE NEEDLE
DE30HR24	8684154202378	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 24mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00HR40-L-150	8684154202385	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE (LOOPED ON)
DE60HR10	8684154202460	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE70DR10-D-60	8684154202477	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 10mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50DS12-D	8684154202484	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 12mm 3/8 CIRCLE REVERSE CUTTING DOUBLE NEEDLE
DE40HS16	8684154202491	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 16mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE30HR25-D-100	8684154202507	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 3-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE00HC40	8684154202514	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE NORMAL CUTTING EDGE NEEDLE
DE01HC40	8684154202521	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE NORMAL CUTTING EDGE NEEDLE
DE50HR18	8684154202866	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60HR18	8684154202873	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 18mm 1/2 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			ROUND BODY T.P NEEDLE
DE01HR40-L-150	8684154203313	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE (LOOPED ON)
DE30HR17	8684154203382	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE50DR17-D	8684154203399	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 17mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR12-D	8684154203405	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 12mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE00HR30-90	8684154203412	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60HR10-D-45	8684154203429	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 6-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20DS26-90	8684154203450	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40HR20-90	8684154203467	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40DS20-90	8684154203474	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 20mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE50DS12	8684154203511	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 12mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE50HR20-D-90	8684154203528	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50HR17-90	8684154203535	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE01HS40	8684154204235	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 40mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE00HS40	8684154204242	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE00HR26-90	8684154204303	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HR18	8684154204310	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00HS30	8684154204327	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 30mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE01HS30	8684154204334	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 30mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE02DR30	8684154204341	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 30mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE00HC36-100	8684154205966	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 0 (BLUE) 36mm 1/2 CIRCLE NORMAL CUTTING EDGE NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE50HR10	8684154206093	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30DS22	8684154206109	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 22mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE20DS26-45	8684154206383	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 2-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30DS26-45	8684154206390	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 3-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40DS19-45	8684154206406	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 4-0 (BLUE) 19mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE20HR24	8684154206758	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 24mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60DS12	8684154206765	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 12mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE60HR12	8684154206772	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 12mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE20DS35-90	8684154206918	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 35mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE60DR13	8684154206949	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE70DR10	8684154206956	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 7-0 (BLUE) 10mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE70DS10	8684154206963	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 7-0 (BLUE) 10mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE60DR13-D	8684154207243	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE00HR31	8684154207564	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00HR26-D	8684154207571	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20HR26-D	8684154207588	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE00DS26	8684154207847	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE70DS8-45	8684154207854	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 7-0 (BLUE) 8mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE70DR10-D	8684154207861	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 7-0 (BLUE) 10mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE80DR6.4-D-60	8684154207878	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 8-0 (BLUE) 6.4mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE80DR8-D-60	8684154207885	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 8-0 (BLUE) 8mm 3/8 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			ROUND BODY T.P DOUBLE NEEDLE
DE90DR5-60	8684154207892	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 9-0 (BLUE) 5mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE20HR36	8684154208042	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 36mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE50HR19	8684154208059	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 19mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE02HR65	8684154209698	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 65mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00HS37	8684154209704	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 37mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE00HR37	8684154209711	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 37mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00HS40-100	8684154209728	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 0 (BLUE) 40mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE01DC30	8684154209735	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 30mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE01DR35	8684154209742	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 35mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE01HS37	8684154209759	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 1 (BLUE) 37mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE20DC26	8684154209766	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 26mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE20DC40-100	8684154209773	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 2-0 (BLUE) 40mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE20DR26	8684154209780	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 26mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE20DR28	8684154209797	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 28mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE20DS26-60	8684154209803	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 2-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE20HC30	8684154209810	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 30mm 1/2 CIRCLE NORMAL CUTTING EDGE NEEDLE
DE20DS39	8684154209827	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 39mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE20HR17-D-90	8684154209834	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20HR31	8684154209841	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE20HR35	8684154209858	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 35mm 1/2 CIRCLE ROUND BODY T.P NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE20HR31-D-90	8684154209865	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE00HS36	8684154209674	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 36mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE20HR37-150	8684154209872	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 2-0 (BLUE) 37mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE20HS16	8684154209889	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 16mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE20HR30-D	8684154209896	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20HS30	8684154209902	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 30mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE30DC20	8684154209919	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 20mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE30DR20	8684154209926	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 20mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE30DR22	8684154209933	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 22mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE30DR22-D	8684154209940	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 22mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30DR25-D-90	8684154209957	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 25mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30DR36-D-90	8684154209964	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 36mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30DS24-45	8684154209971	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 3-0 (BLUE) 24mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30DS25-100	8684154209988	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 3-0 (BLUE) 25mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30DS25-45	8684154208608	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 3-0 (BLUE) 25mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30DS26-60	8684154209995	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 3-0 (BLUE) 26mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE30GS60-45	8684154210007	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 3-0 (BLUE) 60mm STRAIGHT REVERSE CUTTING NEEDLE
DE30HR15-D	8684154210014	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 15mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR15-D-90	8684154210021	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 15mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR25-90	8684154210038	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HR18-D	8684154210045	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 18mm 1/2 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet		Issue Date 08.07.2016

			ROUND BODY T.P DOUBLE NEEDLE
DE30HR18-D-90	8684154210052	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR25	8684154210069	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HR25-D	8684154210076	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR27	8684154210083	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 27mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HR31	8684154210090	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HR31-D	8684154210106	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR36-D-90	8684154210113	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 36mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR37	8684154210120	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 37mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HRT17-90	8684154210137	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 17mm 1/2 CIRCLE TAPER CUT NEEDLE
DE30HS18	8684154210144	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 18mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE30HS26	8684154210151	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 26mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE30HR20-90	8684154210168	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40DC16-45	8684154210175	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 4-0 (BLUE) 16mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE40DC18	8684154210182	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE40DR18	8684154210199	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE40DR18-D	8684154210205	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DR20-D-90	8684154210212	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 20mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DR22-D	8684154210229	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 22mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DR25-D	8684154210236	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 25mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DR26-D-90	8684154210243	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 26mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE40DS15	8684154210250	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 15mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE40HR18-90	8684154210267	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40HR18-D	8684154210274	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40HR15-D	8684154210281	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 15mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40HR18-D-90	8684154210298	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40HR20-60	8684154210304	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 4-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40HR26-D-120	8684154210311	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 120cm USP SIZE 4-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40HR22-D-90	8684154210328	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 22mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40HR25-D-90	8684154210335	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE01HR44-100	8684154210342	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 1 (BLUE) 44mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40HR27-100	8684154210359	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 4-0 (BLUE) 27mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE40HS19	8684154210366	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 19mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE50DC13	8684154210373	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE50DC16-45	8684154210380	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 5-0 (BLUE) 16mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE50DR13	8684154210397	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE50DR13-D-60	8684154210403	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 5-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50DR15	8684154210410	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 15mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE50DR16	8684154210427	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 16mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE50DR17-90	8684154210434	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 17mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE50DR18-D	8684154210441	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 18mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50DR22-D	8684154210458	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 22mm 3/8 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			ROUND BODY T.P DOUBLE NEEDLE
DE50HR10-D	8684154210465	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50HR10-D-60	8684154210472	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 5-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50HR18-D-90	8684154210489	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 18mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50HR13-D-90	8684154210496	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 13mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50HR17-D-90	8684154210502	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 5-0 (BLUE) 17mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE02HR37	8684154209681	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2 (BLUE) 37mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE50HRT13-D	8684154210519	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 1/2 CIRCLE TAPER CUT DOUBLE NEEDLE
DE50HS13-45	8684154210526	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 5-0 (BLUE) 13mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE60DC11	8684154210533	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 11mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE60DC13-D-60	8684154210540	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 13mm 3/8 CIRCLE NORMAL CUTTING DOUBLE NEEDLE
DE60DR10-D-90	8684154210557	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 6-0 (BLUE) 10mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR11	8684154210564	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 11mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE60DR11-D-60	8684154210571	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 11mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR12-45	8684154210588	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 6-0 (BLUE) 12mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE60DR18-D	8684154210595	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 18mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR9.3-60	8684154210601	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 9.3mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE60DR9.3-D-60	8684154210618	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 9.3mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60DR9-D-60	8684154210625	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 9mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60HR20	8684154210632	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60DS11	8684154210649	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 11mm 3/8 CIRCLE REVERSE CUTTING NEEDLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

DE60HR14-D	8684154210656	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 14mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60HR15	8684154210663	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 15mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60HR8-D-90	8684154210670	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 6-0 (BLUE) 8mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60HRT13-D	8684154210687	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 13mm 1/2 CIRCLE TAPER CUT DOUBLE NEEDLE
DE70DC9.3-60	8684154210694	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 9.3mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE70DC9.3-D-60	8684154210700	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 9.3mm 3/8 CIRCLE NORMAL CUTTING DOUBLE NEEDLE
DE70DR13-D-60	8684154210717	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE70DR18-D	8684154210724	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 7-0 (BLUE) 18mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE70DR9.3-D-60	8684154210731	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 9.3mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE70DR9-45	8684154210748	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 7-0 (BLUE) 9mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE70DR9-60	8684154210755	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 9mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE70DR9-D-60	8684154210762	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 7-0 (BLUE) 9mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE70HR12-D	8684154210779	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 7-0 (BLUE) 12mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE80DR6.4-D-45	8684154210786	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 8-0 (BLUE) 6.4mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE80DR6-D-45	8684154210793	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 8-0 (BLUE) 6mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE80HR8-D	8684154210809	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 8-0 (BLUE) 8mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE80DR9-45	8684154210816	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 8-0 (BLUE) 9mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE90DSPM6-D-45	8684154210823	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 9-0 (BLUE) 6mm 3/8 CIRCLE SPATULA MICRO POINT DOUBLE NEEDLE
DE90DSPM7-D-45	8684154210830	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 9-0 (BLUE) 7mm 3/8 CIRCLE SPATULA MICRO POINT DOUBLE NEEDLE
DE90VSPM5-D-45	8684154210847	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 9-0 (BLUE) 5mm 1/4 CIRCLE SPATULA MICRO POINT DOUBLE NEEDLE
DE01HR48-240	8684154214432	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 240cm USP SIZE 1 (BLUE) 48mm 1/2 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			ROUND BODY T.P NEEDLE
DE00DR30	8684154214449	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 0 (BLUE) 30mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE30DRT17-D-90	8684154214456	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 17mm 3/8 CIRCLE TAPER CUT DOUBLE NEEDLE
DE30GC60	8684154214463	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 60mm STRAIGHT NORMAL CUTTING NEEDLE
DE30HR25-D-90	8684154208615	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 25mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR26-D-135	8684154214470	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 135cm USP SIZE 3-0 (BLUE) 26mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE90HSPM5-D-45	8684154214487	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 9-0 (BLUE) 5mm 1/2 CIRCLE SPATULA MICRO POINT DOUBLE NEEDLE
DE01HR30-90	8684154208417	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 1 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE20HR20-D-90	8684154208424	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 20mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20DR30	8684154208479	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 30mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE20HS22	8684154208486	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 22mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE30HRT17-D-90	8684154208622	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 17mm 1/2 CIRCLE TAPER CUT DOUBLE NEEDLE
DE20HR40-90	8684154208660	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE00-1X150	8684154208677	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 0 (BLUE) WITHOUT NEEDLE
DE01-1X150	8684154208684	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 1 (BLUE) WITHOUT NEEDLE
DE60DR10	8684154208691	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 10mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE20GC60-D	8684154208929	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 60mm STRAIGHT NORMAL CUTTING DOUBLE NEEDLE
DE80HR8	8684154208936	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 8-0 (BLUE) 8mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE80HR8-45	8684154208943	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 8-0 (BLUE) 8mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60DS10-45	8684154214890	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 6-0 (BLUE) 10mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE02HR40-L-150	8684154214968	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 150cm USP SIZE 2 (BLUE) 40mm 1/2 CIRCLE ROUND BODY T.P NEEDLE (LOOPED ON)



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet		Issue Date 08.07.2016

DE00HR31-100	8684154215071	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE20HR31-90	8684154215088	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 31mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE30HRT18	8684154215095	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 18mm 1/2 CIRCLE TAPER CUT NEEDLE
DE60DR10-D-60	8684154215101	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 10mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE70DR13-D	8684154215118	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 7-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE20HR36-D-90	8684154215279	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 36mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30DC19-45	8684154215286	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 45cm USP SIZE 3-0 (BLUE) 19mm 3/8 CIRCLE NORMAL CUTTING NEEDLE
DE30HR22-D	8684154215293	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 22mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30HR30-D-90	8684154215309	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 30mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE40DR17-D-90	8684154215316	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 4-0 (BLUE) 17mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE50DR13-D	8684154215323	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 3/8 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE60HR10-D-60	8684154215330	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 60cm USP SIZE 6-0 (BLUE) 10mm 1/2 CIRCLE ROUND BODY T.P DOUBLE NEEDLE
DE30DS30-90	8684154215866	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 3-0 (BLUE) 30mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE20GS60-90	8684154215873	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 90cm USP SIZE 2-0 (BLUE) 60mm STRAIGHT REVERSE CUTTING NEEDLE
DE20DR20	8684154215897	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 20mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE40DR20	8684154215903	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 4-0 (BLUE) 20mm 3/8 CIRCLE ROUND BODY T.P NEEDLE
DE20HR22	8684154216146	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 2-0 (BLUE) 22mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE60HR8	8684154216153	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 8mm 1/2 CIRCLE ROUND BODY T.P NEEDLE
DE50DS13-D	8684154216160	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 5-0 (BLUE) 13mm 3/8 CIRCLE REVERSE CUTTING DOUBLE NEEDLE
DE60DS8	8684154216177	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 8mm 3/8 CIRCLE REVERSE CUTTING NEEDLE
DE60DS8-D	8684154216184	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 6-0 (BLUE) 8mm 3/8 CIRCLE



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

			REVERSE CUTTING DOUBLE NEEDLE
DE01HS50-100	8684154218812	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 100cm USP SIZE 1 (BLUE) 50mm 1/2 CIRCLE REVERSE CUTTING NEEDLE
DE30DC16	8684154218867	POLYPROPYLENE	DAMALENE: PP MONOFILAMENT NON-ABSORBABLE SUTURE 1PCS X 75cm USP SIZE 3-0 (BLUE) 16mm 3/8 CIRCLE NORMAL CUTTING NEEDLE

6. Manufacturing Process:

Manufacturing is performed By **GMD Group Medikal San. Ve Tic. A.Ş** at : İkitelli O.S.B İsdök Sanayi Sitesi İsdök Sosyal Tesis Plaza Binasi B Blok No :7-8. The manufacturing is made under clean room conditions. The productions consist of manually insertion of the thread into the needles. After testing products are winded in a paper, are packed into aluminium paper, then packed again in a medical paper and the products are ETO sterilized in-house.

The following major manufacturing steps are used:

Manufacturing Methods

Threads are cut to the required length.

Threads are manually attached to needles using purpose made attaching machines in ISO 8 Clean Room.

Packaging Procedures


- After attaching, the suture is reverse wound into a retaining pouch leaving the needle accessible for easy withdrawal of the thread.
- The sutures are packed in an aluminum foil inner envelope (primary packaging) and labeled in ISO 8 Clean Room, but not sealed at this stage.
- This inner aluminum envelope is then placed in an outer envelope (secondary packaging), which is sealed.

One package unit of DAMALENE, POLYPROPYLENE contains 12 single pouches.

Sterilization

DAMALENE, POLYPROPYLENE sutures are sterilized in-house by EtO. They are then vacuum-dried, sealed and packed.

Sterilization process is verified by chemical indicators and biological indicators are also used routinely to challenge the procedure. The sterilization process is validated according to EN ISO 11135-1:2007. Main routine sterilization parameters are 55 °C %50 Humidity with a gas injection

	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

period of 5 hours.

As regards the manufacturing / assembly area, environmental conditions are monitored at regular intervals using standard microbiological methods (i.e. culture plates)

Packaging into cartons

Twelve sutures' pouches are packed into a carton and labelled. Each carton is cellophane wrapped. Hundred cartons are packed in a shipper, which is sealed. Each shipper is allocated a unique sequential identification number and labelled with the contents and their batch numbers.

Production Hygiene:

Production (Assembly) is performed under ISO 8 clean room conditions. Bioburden is checked on a routinely basis and controlled by responsible persons.

ETO-Residual Tests

ISO 10993-7:2008 provides limits for sterilization residuals based on product application.

ETO residuals are tested according to the requirements of ISO 10993-7:2008 by using gas chromatography.

EN 10993-7 Article 4.3.3 Prolonged exposure devices

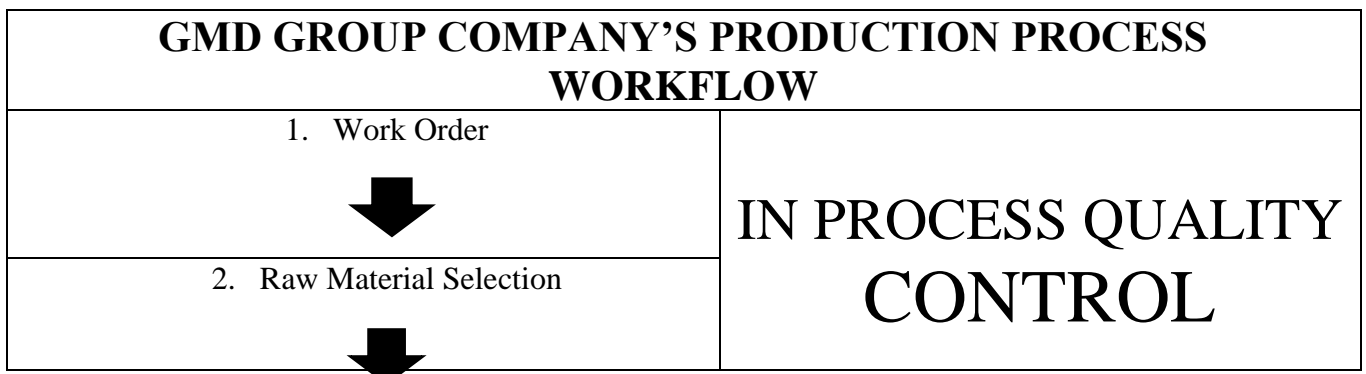
The average daily dose of EO to patient shall not exceed 2 mg/d. In addition, the maximum EO dose shall not exceed:

– 4 mg in the first 24 h;

– 60 mg in the first 30 d.

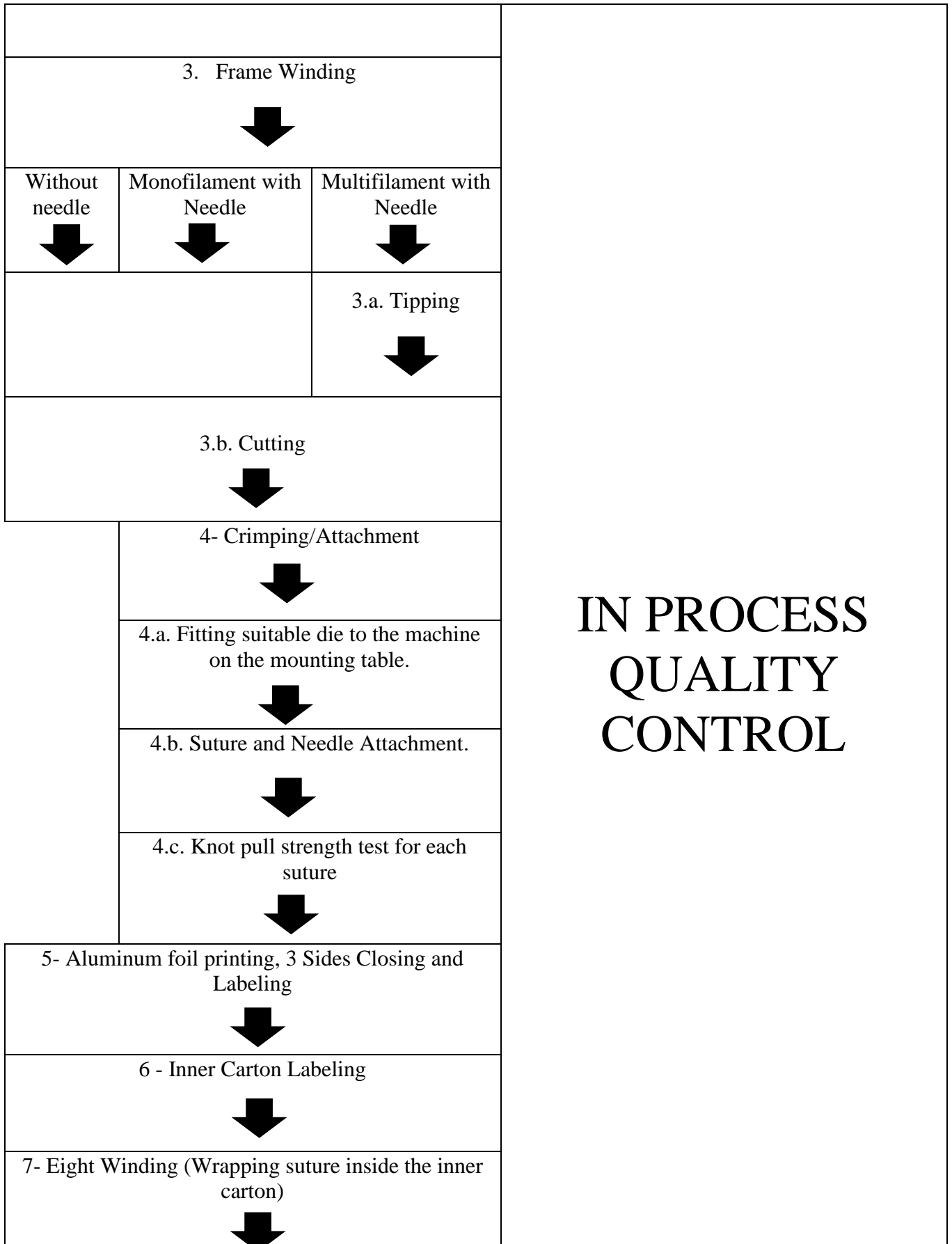
The residual test is carried out according to EN 10993-7 and the results are shown in

Manufacturing Flow Chart



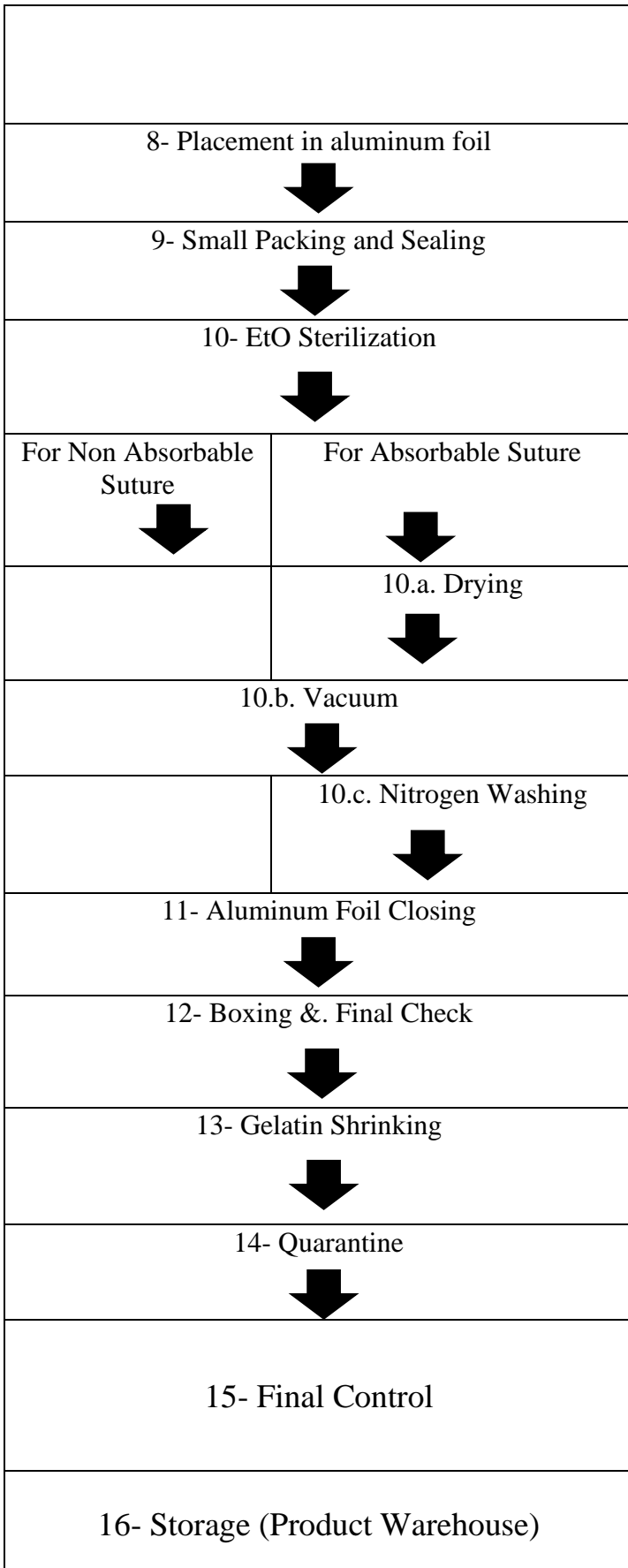


Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016





Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016



IN PROCESS
QUALITY
CONTROL



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

From material entrance into the production to Temporary warehouse (quarantine area) all processes are carried out in GMD Clean room

EXPLANATION OF THE WORKFLOW STEPS		
Work Flow Steps	Manufacturing Process	Description/Explanation
1-	Work Order	This is the initial step where a work order is generated based on the demand for surgical sutures. The work order includes details such as the type, quantity, and specifications of the sutures to be manufactured.
2-	Raw Material Selection	Selection of appropriate raw materials such as suture threads and needles, etc. The materials are chosen based on the type of suture (absorbable or non-absorbable) and the specific requirements of the surgical application.
3-	Frame Winding	The suture thread is wound onto frames. This process ensures that the thread is properly aligned and tensioned, which is crucial for the subsequent manufacturing steps. 2 Manual and 1 automatic machines are used in GMD. Tipping and Cutting is made manually after frame winding in manual machine, and tipping is made by laser and cutting is made automatically when the automatic frame winding machine is used.
4-	Crimping/Attachment	The suture thread is attached to the needle through a crimping process after fitting die to the machine on the mounting table for the right suture and needle size. Crimping securely fastens the thread to the needle, ensuring that it does not detach during surgical procedures. To control the suture and needle attachment strength, 1.560 gr (for sizes: 0,1,2) and 839,5 gr (for sizes: 2-0, 3-0, 4-0) weight scales are used. (For USP sizes please out the size information table below)
5-	Aluminum foil printing, 3 Sides Closing and Labeling	This step involves printing information directly onto aluminum foil, which is often used as part of the sterile packaging for surgical sutures. The printed information typically includes details such as the type of



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

		suture, size, batch number, and expiration date. This ensures that all necessary information is readily available to healthcare professionals. The use of aluminum foil helps maintain sterility and protects the sutures from environmental factors. The aluminum foil (sterile barrier) is sealed on three sides to create a pouch. This ensures that the suture remains sterile and protected.
6-	Inner Carton Labeling	Labels provide essential information such as product type, batch number, expiration date, and other regulatory details. Proper labeling ensures traceability and compliance with industry standards. For the symbol placement, ISO and CE standard regulations are conformed.
7-	Eight Winding (Wrapping suture inside the inner carton)	Eight winding ensures that the suture thread is wound in a manner that prevents tangling and maintains the integrity of the thread. This step is important for ensuring the sutures are easy to handle during surgical procedures. It provides advantage on less memory and easier pulling out.
8-	Placement in aluminum foil	Filling the wrapped sutures into aluminum foil that is 3 side closed form.
9-	Small Packing and Sealing	This step involves placing each suture into its own sterilization package and sealing it to maintain sterility after next steps.
10-	EtO Sterilization	Ethylene Oxide (EtO) sterilization is used to sterilize the packaged sutures. EtO is a gas that effectively sterilizes medical devices by disrupting the DNA of microorganisms. This process is suitable for materials that cannot withstand high temperatures, ensuring that the sutures are sterile and safe for use. For absorbable sutures drying, vacuum and nitrogen washing steps are applied. For the non absorbable sutures; vacuum is needed but drying and nitrogen washing is not needed.
11-	Aluminum Foil Closing	Aluminum foil provides an additional barrier to protect the sutures from environmental factors such as moisture and light. This step ensures the long-term sterility and integrity of the sutures.
12-	Boxing &. Final package Control	The sealed packages are placed into boxes, and a final control check is performed.
13-	Box Labeling - Gelatin Shrinking	Gelatin shrinking, outside of the carton box, helps to maintain the shape of this box that a



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

		dozen quantity of sutures placed inside of it.
14-	Quarantine	Quarantine ensures that any potential contaminants are identified before the sutures are released for use.
15-	Final Check	The step is critical to ensure that the product quality of sutures is approved after all production process in accordance to the international medical device regulations. It shows that all batches are correctly labeled and documented, facilitating traceability and quality control throughout the manufacturing process. The tests for final control: Knot Pull Tensile Strength Test, Elongation (without knot)Test, Needle Pull Separation Strength, Suture Visual Test, Needle Visual Test, Suture Diameter Test, Suture Length Test, Product Packaging Control, Extractable Color Control, Sterilization Method Control, Sterility Test.
16-	Storage (Product Warehouse)	The final products are stored in the warehouse until they are shipped. The product warehouse provides a controlled environment for storing the sutures, ensuring they remain in optimal condition until they are distributed to healthcare facilities.


7. Product and Test Specifications:

DAMALENE, POLYPROPYLENE range of sutures started to successfully be produced and extensively used in 2016.

The following tests are specified as final batch release controls according to USP 2 and 5/0 :

Validation1

Test Parameter	Method	Lot 16D01 DE5K16	
		Limit	Result
Needle Attachment	TS Machine	3,0	4,8
Sterility Test	Bio Cabinet	Sterile	Sterile

	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

Validation 2

Test Parameter	Method	Lot 16E05 DE0KDN25	
		Limit	Result
Needle Attachment	TS Machine	22,0	38.6
Sterility Test	Bio Cabinet	Sterile	Sterile

The test reports of DAMALENE, POLYPROPYLENE lots given on the above table are given on Test reports

7.1. Stability/Aging Test and Product Lifetime:

Stability Testing were performed as accelerated tests and real time tests according to ICH Guideline CPMP QWP 556/96

The product's shelf life was identified as 5 years according to the test results.

7.2. Product Tests (Performance) :

The relevant tests and reports are given on Test Reports

7.3. The Product Classification

According to annex IX, rule no. 8 of EC-Directive 93/42/EEC the product category is classified as Medical Devices **class III**. The product is a non-absorbable medical device (surgical suture) for surgically invasive long-term implantation applications. It is used in cardiovascular area.

Rule 8:

"All implantable devices and long-term surgically invasive devices are in Class IIb unless they are intended:

- to be placed in the teeth, in which case they are in Class IIa,
- to be used in direct contact with the heart, the central circulatory system or the central nervous system, in which case they are in Class III,
- to have a biological effect or to be wholly or mainly absorbed, in which case they are in Class III,
- or to undergo chemical change in the body, except if the devices are placed in the teeth, or to administer medicines, in which case they are in Class III.



	Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
	Rev Date	30.08.2024	Rev No.	06
	Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

7.4. Clinical Evaluation:

For the clinical evaluation of literature route of MEDDEV 2.7.1Rev.4 has been selected. Clinical Evaluation is given of this technical file.

7.5. Declaration of Conformity

Declaration of Conformity for GMD has been prepared according to EC Directive 93/42/EEC and approved by General Manager of the company.

The copy of the declaration of Conformity is given on this technical file.

7.6. Notified Body Information

UDEM-TECHNICAL INSPECTION & CERTIFICATION (2292) has been selected as the notified body and certification body.

During CE marking of these products the above declaration of conformity is made on the basis of the Quality Assurance Certificate No. M.2016.106.7035 of UDEM dated 25.10.2016 issued by UDEM TECHNICAL INSPECTION & CERTIFICATION.

7.7. Essential Requirements:

The evidence of the fulfilment of Essential requirements given on Annex I of EC Directive 93/42/EEC, detailed on the Essential Requirements Checklist given on this technical file.

7.8. List of Applicable Standards:

The applicable standards used in compliance with the Essential requirements given on Annex I of EC Directive 93/42/EEC, (detailed on the Essential Requirements Checklist given on TF08 of this technical file) are mainly ISO and EN standards which are harmonized by European Commission for the MDD 93/42/EEC.

The list of applicable standards used in design, manufacturing and testing are given of this technical file.

7.9. Risk Analyses

Risk Analyses process of GMD is designed according to EN ISO 14971:2012 and covers all life-cycle process of the product. The Risk Management Activities of GMD are performed according to "Risk Management Instruction".



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

8.1. Conformity Assessment Procedure:

DAMALENE, POLYPROPYLENE manufactured by GMD are CE marked according to Annex II, Article 4 of EC Directive 93/42/EEC . The certification is based on quality management system of GMD, which is certificated according to ISO 13485:2012.

8.2. Regulatory Requirements for the Product:

EC directive 93/42/EEC is the applicable regulatory requirement for GMD

8.3. Planned Design Changes

No design changes are planned. If a change is required, it must be made in accordance with the GE01021 Release Management provisions. The notified body is notified when there is a change to comply with the requirements of MDCG 2020-3 and MDR Article 120

9. Sale Information

Sale Information for DAMALENE, POLYPROPYLENE

The product has been in market since 2016. CE marked has been provided from UDEM (2292)

The product has been in the Turkey and European Markets. For 2018 sale information has been presented below.

DAMALENE	Country	Boxes
	Thailand	200
	Czech Republic	330
	Egypt	9360
	Erbil	3740
	Iraq	2239
	Jordan	420
	Libya	1560
	Palestine	500
	Türkiye	16949
	Vietnam	1500
	Somali	925
	Kuwait	200
	Germany	355
	Yemen	8980
	Dubai UAE	950
	Russia	70
	Romania	2568
	Slovenia	36
	Vietnam	2100
	Kenya	400
	Lebanon	357
DAMALENE Total		53739



Gmd Group Medikal San. ve Tic. A.Ş		Ref No.	DE-05
Rev Date	30.08.2024	Rev No.	06
Damalene, POLYPROPYLENE	Technical Data Sheet	Issue Date	08.07.2016

10. Rev. History

Rev.0 08.07.2016	Initial publish
Rev.1 21.8.2017	Added Product Model Names
Rev.2 24.05.2018	ADDED NEW BRAND "POLYPROPYLENE"
Rev.03 23.10.2018	Items: Product images, intended use of the product, Intended user, Patient Population, mechanism of action Design Change, Sale Information have been changed.
Rev 04 20.06.2019	Title Updated
Rev 05 10.05.2023	Revisions were made according to notified body nonconformities.
Rev.6 30.08.2024	Added Product Model Names

Executive Manager Dr. Adnan MİDANİ

30 August 2024

