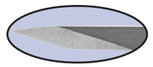
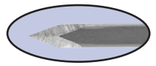
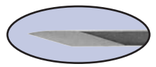
FLAT BLADED MYRINGOTOMY KNIVES AND BLADES



Angled Myringotomy Blade
70130780

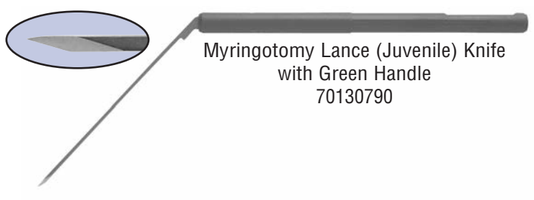


Myringotomy Arrow (Juvenile) Blade
70130781



Myringotomy Lance (Juvenile) Blade
70130933

Myringotomy Spear (Juvenile) Knife
with Green Handle
70130791



Myringotomy Lance (Juvenile) Knife
with Green Handle
70130790

ROUND BLADES WITH ADDITIONAL TAPERED SHAFTS

Tapered Series – Straight Edge Angled Up Cut
70130927

Tapered Series – Straight Edge Angled Down Cut
70130928

Tapered Series – Straight Edge Straight Blade
70130929

Tapered Series – Spear Tip Angled Blade
70130930

Tapered Series – Spear Tip Straight Blade
70130931

Stainless Steel Handle for Tapered Shaft Blades
70130932
Stainless Steel Handle for Round Shaft Blades
70130934

TRADITIONAL DISPOSABLE KNIVES WITH HANDLES

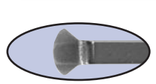
Sickle Blade Flat Handle
130715

Lancet Blade Flat Handle
130716

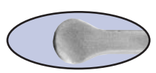
Sickle Blade Round Handle
130915

Lancet Blade Round Handle
130916

Arrow Blade Round Handle
70130717



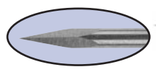
Tympanoplasty Angled Blade
70130925



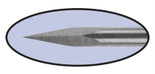
Tympanoplasty Straight Blade
70130926

Stainless Steel Handle for Flat Blades
130884

ROUND SHAFT MYRINGOTOMY BLADES



Spear Micro-Point Straight Blade
70130793



Spear Micro-Point Angled Blade
70130794

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Reference Guide

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2011-08 REV AB 70600977

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In 1956, Richards Manufacturing introduced the world's first stapes implant. In the five decades since, the Richards line has expanded to revolutionize middle ear prostheses through the development of new products and the introduction of new materials and technologies. From the first PORP® and TORP® designs to the first commercially available vent tube, and from advancements in Otoendoscopy to precision instrumentation; these innovations in Otology have resulted in the most comprehensive line of otologic products in the market.

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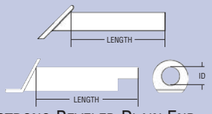
Note

Unless otherwise indicated, the left-hand side of the image indicates medial side placement.

Armstrong Beveled Grommets

Material	Cat. No.	ID	Description
Fluoroplastic	140242	1.14 mm	
Fluoroplastic	*145700	1.14 mm	
Fluoroplastic	**70143061	1.14 mm	Blue
Fluoroplastic	70145061	1.14 mm	Blue
Fluoroplastic	*70145761	1.14 mm	Blue
Fluoro-PacifiC	70140267	1.14 mm	
Fluoro-PacifiC	**70143067	1.14 mm	
Fluoro-PacifiC	*70146067	1.14 mm	
Fluoro-PacifiC	70140395	1.14 mm	Arm. V Style, Blue
Fluoro-PacifiC	**70140396	1.14 mm	Arm. V Style, Blue
Fluoro-PacifiC	*70140397	1.14 mm	Arm. V Style, Blue
Silicone	240050	1.14 mm	w/Tab, Blue
Ultrasil	70241050	1.14 mm	w/Tab, Blue
Ultrasil	**70241350	1.14 mm	w/Tab, Blue
Ultrasil	*70245755	1.14 mm	w/Tab, Blue

Designed by B.W. Armstrong, M.D., Charlotte, NC.



Armstrong Beveled Plain End Ventilation Tubes

Material	Cat. No.	ID	Length
Fluoroplastic	140244	1.14 mm	7.6 mm
Fluoroplastic	*145706	1.14 mm	7.6 mm
Fluoro-PacifiC	70140345	1.14 mm	7.6 mm
Fluoro-PacifiC	**70140346	1.14 mm	7.6 mm
Fluoro-PacifiC	*70140347	1.14 mm	7.6 mm
Fluoro-PacifiC	70140398	1.14 mm	Arm V, 4.5 mm
Fluoro-PacifiC	*70140399	1.14 mm	Arm V, 4.5 mm
Fluoro-PacifiC	**70140400	1.14 mm	Arm V, 4.5 mm
Fluoro-PacifiC	70140401	1.14 mm	Arm V, 7.5 mm
Fluoro-PacifiC	*70140402	1.14 mm	Arm V, 7.5 mm
Fluoro-PacifiC	**70140403	1.14 mm	Arm V, 7.5 mm
Silicone	240052	1.14 mm	7.6 mm Blue
Ultrasil	70241052	1.14 mm	7.6 mm Blue

Designed by B.W. Armstrong, M.D., Charlotte, NC.

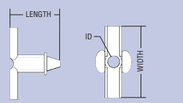
Baxter Beveled Bobbin Ventilation Tube

Material	Cat. No.	ID	Description
Fluoro-PacifiC	70140271	.97 mm	Blue
Fluoro-PacifiC	**70140273	.97 mm	Blue
Fluoro-PacifiC	*70140275	.97 mm	Blue
Fluoro-PacifiC	70140270	1.27 mm	Blue
Fluoro-PacifiC	**70140272	1.27 mm	Blue
Fluoro-PacifiC	*70140274	1.27 mm	Blue

Berger "V" Bobbin Ventilation Tube

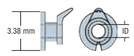
Material	Cat. No.	ID	Description
Titanium	145282	1.27 mm	—

Designed by Eric S. Berger, M.D., Aberdeen, WA. U.S. Patent No. 4,080,171.



Butterfly Ventilation Tube

Material	Cat. No.	ID	Length	Width
Silicone	240073	1.27 mm	5.3 mm	7.6 mm
Silicone	**70245018	1.27 mm	5.3 mm	7.6 mm
Silicone, Ultrasil	70241073	1.27 mm	5.3 mm	7.6 mm



Canale Ventilation Tube

Material	Cat. No.	ID	Description
Silicone	240080	1.14 mm	Blue

Developed in conjunction with James Canale, M.D., Blytheville, AR.

Collar Bobbin® Vent Tubes

Material	Cat. No.	ID	Description
Titanium	145287	1.14 mm	—
Fluoroplastic	145288	.75 mm	—
Fluoroplastic	145289	1.14 mm	—
Titanium	145297	1.27 mm	—
Fluoroplastic	145298	1.27 mm	—

Designed for Bruce Black, M.D., Brisbane, Australia.

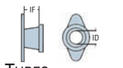
Collar Button Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	145214	1.27 mm	White
Fluoroplastic	**145004	1.27 mm	White
Fluoroplastic	*145705	1.27 mm	White
Fluoroplastic	*70145062	1.27 mm	Blue
Fluoroplastic	*70145060	1.27 mm	Blue
Fluoroplastic	145217	1.27 mm	White w/Wire
Fluoro-PacifiC	70145314	1.27 mm	White
Fluoro-PacifiC	**70145316	1.27 mm	White
Fluoro-PacifiC	*70145317	1.27 mm	White
Silicone	240014	1.27 mm	Blue
Silicone, Ultrasil	70241014	1.27 mm	Blue
Silicone, Ultrasil	**70241314	1.27 mm	Blue
Silicone, Ultrasil	*70241060	1.27 mm	Blue

Donaldson Ventilation Tubes

Material	Cat. No.	ID	Description
Silicone	240015	1.14 mm	Blue
Soft Silicone	240060	1.14 mm	Blue
Silicone	*245702	1.14 mm	Blue
Silicone	240016	1.14 mm	w/Tab, Blue
Silicone	**70245012	1.14 mm	w/Tab, Blue
Silicone	*245707	1.14 mm	w/Tab, Blue
Fluoroplastic	146043	1.14 mm	
Ultrasil	70241015	1.14 mm	

Designed for James A. Donaldson, M.D., Seattle, WA.



DuraVent™ Tubes

Material	Cat. No.	ID	Description
Silicone	240075	1.27 mm	1.37 mm IF, Blue
Silicone	*245775	1.27 mm	1.37 mm IF, Blue
Ultrasil	70241075	1.27 mm	1.37 mm IF, Blue
Ultrasil	**70241375	1.27 mm	1.37 mm IF, Blue

Designed by Bruce Black, M.D., Brisbane, Australia.

Dutcher Ventilation Tube

Material	Cat. No.	ID	Description
Silicone, Ultrasil	70240054	1.27 mm	4.32 mm Medial Flange Width, w/Tab, Blue

Designed for Paul Dutcher, M.D., Rochester, NY.

Feuerstein Split Tube

Material	Cat. No.	ID	Length
Fluoroplastic	140248	1.02 mm	9 mm

Designed for Sidney S. Feuerstein, M.D., New York, NY.

Jahn HydroxylVent® Tubes

Material	Cat. No.	ID	Description
Hydroxylapatite	140906	1.00 mm	9.5 mm Long
Hydroxylapatite	140926	1.27 mm	9.5 mm Long
Hydroxylapatite	140927	1.00 mm	9.5 mm Long w/Flpl. Liner

Packaged individually.
Designed for Anthony Jahn, MD, New York, NY.

Lindeman-Silverstein Arrow Ventilation Tube

Material	Cat. No.	ID	Description
Fluoroplastic	140240	1.14 mm	—

Designed for Roger Lindeman, M.D., Seattle, WA, and Herbert Silverstein, M.D., Sarasota, FL.

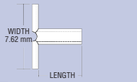
Micron® Titanium Bobbin Ventilation Tubes

Material	Cat. No.	ID	Description
Titanium/Fluoro	145220	1.00 mm	w/Flange Holes
Titanium/Fluoro	145271	1.27 mm	
Titanium/Fluoro	145272	1.52 mm	
Titanium	145221	0.76 mm	Infant
Titanium	145215	1.00 mm	w/Flange Holes
Titanium	145219	1.00 mm	"Unibobbin" (FH on 1 side)
Titanium	145280	1.00 mm	
Titanium	145279	1.14 mm	
Titanium	145273	1.27 mm	w/Spoon Flange
Titanium	145276	1.27 mm	+ Hydromer™ Coat
Titanium	*70145776	1.27 mm	+ Hydromer™ Coat
Titanium	*145781	1.27 mm	
Titanium	145281	1.27 mm	
Blue Titanium	70145381	1.27 mm	Blue
Blue Titanium	70145881	1.27 mm	Blue, 12/box

Mini-Reversible Ventilation Tube

Material	Cat. No.	ID	Description
Silicone	240042	0.89 mm	Reversible

Designed for Burton J. Cohen, M.D., Louisville, KY.



Modified T-Tubes

Material	Cat. No.	ID	Length	Description
Silicone	240072	1.32 mm	4.80 mm	Blue
Silicone	**70245017	1.32 mm	4.80 mm	Blue
Silicone	*245704	1.32 mm	4.80 mm	Blue
Soft Silicone	240074	1.32 mm	4.80 mm	Blue
Ultrasil	70241072	1.32 mm	4.80 mm	Blue

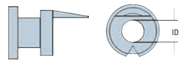
Moretz Type Ventilation Tubes

Material	Cat. No.	ID	Description
Titanium	145265	1.27 mm	Angled Tab
Polyethylene	70145498	1.27 mm	Blue
Polyethylene	**70143498	1.27 mm	Blue
Polyethylene	*70145798	1.27 mm	Blue
Fluoro-PacifiC	70142043	1.27 mm	

Per-Lee Ventilation Tube

Material	Cat. No.	ID	Description
Silicone	240026	1.57 mm	60°, 15 mm Long, Blue

Designed for John H. Per-Lee, M.D., Emory Univ., Atlanta, GA.



Paparella-Type Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	140252	1.02 mm	w/Tab
Fluoroplastic	140254	1.27 mm	w/Tab
Silicone	240043	1.02 mm	w/oTab, Blue
Silicone	240044	1.02 mm	w/Tab, Blue
Silicone	**70245016	1.02 mm	w/Tab, Blue
Silicone	*245701	1.02 mm	w/Tab, Blue
Silicone	70140280	1.14 mm	w/Tab, Blue
Silicone	240046	1.27 mm	w/Tab, Blue
Silicone	**70243046	1.27 mm	w/Tab, Blue
Silicone	*70245746	1.27 mm	w/Tab, Blue
Silicone	240048	2.03 mm	w/Tab, Blue
Soft Silicone	240058	1.02 mm	w/Tab, Blue
Soft Sil-Ultrasil	70140281	1.14 mm	w/Tab, Blue
Soft Sil-Ultrasil	**70241380	1.14 mm	w/Tab, Blue
Soft Sil-Ultrasil	*70245780	1.14 mm	w/Tab, Blue
Silicone, Ultrasil	70241044	1.02 mm	w/Tab, Blue
Silicone, Ultrasil	**70241344	1.02 mm	w/Tab, Blue
Silicone, Ultrasil	70240280	1.14 mm	w/Tab, Blue
Silicone, Ultrasil	**70240281	1.14 mm	w/Tab, Blue
Silicone, Ultrasil	*70240282	1.14 mm	w/Tab, Blue
Silicone, Ultrasil	70241046	1.27 mm	w/Tab, Blue

Designed for Michael Paparella, M.D., Minneapolis, MN.

Pope Beveled Grommet Ventilation Tubes

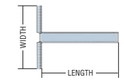
Material	Cat. No.	ID	Description
Polyethylene	145250	1.14 mm	Blue
Polyethylene	**70143250	1.14 mm	Blue
Polyethylene	*70145750	1.14 mm	Blue
Fluoro-PacifiC	70142047	1.14 mm	Blue

Designed for T.H. Pope, Indianapolis, IN.

Reuter Bobbin Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	145212	1.00 mm	1 mm IF, w/o Holes
Fluoroplastic	*145709	1.00 mm	1 mm IF, w/o Holes
Fluoroplastic	145213	1.14 mm	1 mm IF, w/o Holes
Fluoroplastic	**145019	1.14 mm	1 mm IF, w/o Holes
Fluoroplastic	145224	1.14 mm	1 mm IF, w/Wire
Fluoroplastic	145225	1.14 mm	1 mm IF
Fluoroplastic	*145710	1.14 mm	1 mm IF
Fluoroplastic	145227	1.27 mm	0.5 mm IF
Fluoro-PacifiC	70145319	1.00 mm	1 mm IF w/o Holes
Fluoro-PacifiC	**70145320	1.00 mm	1 mm IF w/o Holes
Fluoro-PacifiC	*70145321	1.00 mm	1 mm IF
Fluoro-PacifiC	70145326	1.14 mm	1 mm IF
Fluoro-PacifiC	**70145327	1.14 mm	1 mm IF
Fluoro-PacifiC	*70145328	1.14 mm	1 mm IF
Stainless Steel	145210	1.00 mm	1 mm IF
Stainless Steel	*145701	1.00 mm	1 mm IF
Stainless Steel	145211	1.00 mm	1 mm IF w/Wire
Stainless Steel	145216	1.00 mm	Satin, 1 mm IF w/Wire
Stainless Steel	145218	1.00 mm	Satin, 1 mm IF
Stainless Steel	145208	1.14 mm	1 mm IF
Stainless Steel	145209	1.27 mm	1 mm IF
Titanium	145215	1.00 mm	1 mm IF Micron Finish

Designed for S. Harold Reuter, M.D., Houston, TX.

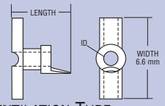


Richards T-Tubes

Material	Cat. No.	ID	Length	Width
Silicone	240071	1.14 mm	12 mm	9.8 mm
Silicone	**70245014	1.14 mm	12 mm	9.8 mm
Soft Silicone	240059	1.14 mm	12 mm	9.8 mm
Silicone	*245706	1.14 mm	12 mm	9.8 mm
Ultrasil	70241071	1.14 mm	12 mm	9.8 mm

Rock Pediatric Ventilation Tube

Material	Cat. No.	ID	Description
Fluoroplastic	140086	1.02 mm	0.89 mm IF



Rube Ventilation Tube

Material	Cat. No.	ID	Length	Width	Description
Silicone	70140260	1.14 mm	4.5 mm	6.6 mm	w/Tab

Shah Ventilation Tubes

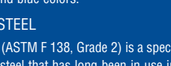
Material	Cat. No.	ID	Description
Fluoroplastic	142230	0.76 mm	w/o Wire
Fluoroplastic	**145020	0.76 mm	w/o Wire
Fluoroplastic	146044	1.14 mm	w/o Wire
Fluoroplastic	**145001	1.14 mm	w/o Wire
Fluoroplastic	140005	1.14 mm	w/Wire
Fluoroplastic	**145015	1.14 mm	w/Wire

Designed for Mr. N. Shah, FRCS, DIO, London, UK.

Shea Parasol Ventilation Tubes

Material	Cat. No.	ID	Description
Silicone	240035	1.02 mm	w/Tab, Small Flange
Silicone	240036	1.02 mm	w/Tab
Silicone	*245703	1.02 mm	w/Tab
Silicone	240038	1.52 mm	w/Tab
Ultrasil	70241036	1.02 mm	w/Tab

Designed for John J. Shea, M.D., Memphis, TN. U.S. Patent No. 3,871,380.



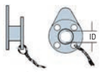
Sheehy-Type Collar Button

Material	Cat. No.	ID	Description
Fluoroplastic	70145971	1.27 mm	
Fluoroplastic	**70143071	1.27 mm	
Fluoroplastic	*70145771	1.27 mm	
Fluoro-PacifiC	70141080	1.27 mm	White
Fluoro-PacifiC	**70143075	1.27 mm	White
Fluoro-PacifiC	*70145780	1.27 mm	White
Silicone	70245781	1.27 mm	Blue
Silicone	*70245782	1.27 mm	Blue

Shepard Grommet Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	140007	1.02 mm	w/Tab
Fluoroplastic	140008	1.14 mm	w/Tab
Fluoroplastic	140027	1.14 mm	
Fluoroplastic	**145003	1.14 mm	
Fluoroplastic	140028	1.02 mm	w/Wire
Fluoroplastic	**145009	1.02 mm	w/Wire
Fluoroplastic	*145702	1.02 mm	w/Wire
Fluoroplastic	140029	1.02 mm	
Fluoroplastic	**145002	1.02 mm	
Fluoroplastic	*145711	1.02 mm	
Fluoroplastic	140030	1.14 mm	w/Wire
Fluoroplastic	**145010	1.14 mm	w/Tab and Wire
Fluoroplastic	*145704	1.14 mm	w/Tab and Wire
Fluoro-PacifiC	70141030	1.02 mm	
Fluoro-PacifiC	**70141031	1.02 mm	
Fluoro-PacifiC	**70141032	1.02 mm	
Silicone	240020	1.02 mm	w/Tab, Blue
Silicone	**70245008	1.02 mm	w/Tab, Blue
Polyethylene	146028	1.02 mm	w/Tab and Wire, Blue
Polyethylene	146029	1.02 mm	w/Tab, Blue
Polyethylene	146030	1.14 mm	w/Tab and Wire, Blue
Polyethylene	146031	1.14 mm	w/Tab, Blue
Ultrasil	70241020	1.02 mm	Blue

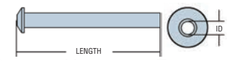
Designed for Marvin G. Shepard, M.D., Dallas, TX.



Spoon Bobbin Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	◆70145224	1.00 mm	w/o Wire, w/o Holes
Stainless Steel	145240	1.00 mm	w/o Wire
Stainless Steel	145241	1.00 mm	w/Wire
Stainless Steel	**70145225	1.00 mm	w/Wire
Titanium	145273	1.27 mm	w/Wire, w/o Holes

Designed for Baldev K. Devgan, M.D., Malibu, CA.



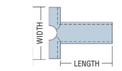
Straight Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	140032	0.89 mm	12 mm Long
Fluoroplastic	140033	1.14 mm	12 mm Long
Fluoroplastic	**145007	1.14 mm	12 mm Long
Fluoroplastic	*145703	1.14 mm	12 mm Long
Fluoroplastic	140034	0.89 mm	7 mm Long
Fluoroplastic	*145707	0.89 mm	7 mm Long
Fluoro-Pacific	70141035	0.89 mm	7 mm Long
Fluoro-Pacific	**70141036	0.89 mm	7 mm Long
Fluoro-Pacific	*70141037	0.89 mm	7 mm Long
Fluoroplastic	140035	1.14 mm	7 mm Long
Fluoroplastic	**145011	1.14 mm	7 mm Long
Fluoroplastic	*145708	1.14 mm	7 mm Long
Fluoro-Pacific	70141039	1.14 mm	7 mm Long
Fluoro-Pacific	**70141040	1.14 mm	7 mm Long
Fluoro-Pacific	*70141041	1.14 mm	7 mm Long
Polyethylene	140016	0.86 mm	7 mm Long, Clear
Polyethylene	*145713	0.86 mm	7 mm Long, Clear

Sultan Ventilation Tubes

Material	Cat. No.	ID	Description
Fluoroplastic	145230	1.27 mm	w/Tab
Fluoroplastic	**145005	1.27 mm	w/Tab

Designed for Andre A. Sultan, M.D., France.



Tiny T-Tubes

Material	Cat. No.	ID	Length	Width	Description
Silicone	70240076	1.32 mm	4.0 mm	4.0 mm	Blue
Ultrasil	70241076	1.32 mm	4.0 mm	4.0 mm	Blue

Designed in conjunction with Richard L. Goode, MD, Palo Alto, CA.

Venturi+Plus Ventilation Tube

Material	Cat. No.	ID	Description
Titanium	70145278	1.27 mm	+Hydromer Coated

Notes

All ventilation tubes are packed one per package, six per box, unless otherwise specified.

* Twinpack: two vent tubes per package, 30 pkgs./box, 60 vent tubes total.

** 30 Pack (Singles).

◆ Twelvepack.

Ventilation Tube Materials

FLUOROPLASTICS

Fluoroplastics are polymers composed of carbon and fluorine atoms. They come from a variety of different resins and are used in a wide range of industrial, medical, and home applications. Teflon is the brand name of one of the more popular varieties of fluoroplastic. Fluoroplastics are highly regarded by otologists for their inertness, smoothness of texture, and biocompatibility. Fluoroplastic parts are molded, machined from rods, or formed from tubing and sheeting.

PACIFIC®

PacifiC is Gyrus ACMI's trademark for a patented phosphorylcholine (PC) coating applied to fluoroplastic ventilation tubes. PC is a chemical group that occurs in membranes of all human cells and is zwitterionic in nature, meaning that it has both positive and negative charges that are within relatively close proximity. Consequently, PC groups tend to attract and bind large numbers of water molecules tightly around themselves, which makes it energetically unfavorable for other materials to interact. PacifiC is a unique coating that mimics the zwitterionic structure of natural membranes. When applied to medical devices, properties such as enhanced resistance to bacterial adhesion are conferred through this "biomimicry."

SILICONE

Silicone is a material that is commonly used in medical implants due to its compliancy and elasticity. It's known for its inertness, smoothness, and lack of tissue reaction.

ULTRASIL™

UltraSil is Gyrus ACMI's patented surface treatment applied to silicone ventilation tubes. The treatment involves bombarding the silicone with high-energy argon ions in order to improve its surface properties. As a result of the ion-implantation the surface of the silicone is "smoothed" and its critical surface tension is increased. These results, acting alone or in concert, may contribute to the "minimally bioadhesive" quality of the Ultrasil material.

POLYETHYLENE

Polyethylene, composed of only carbon and hydrogen atoms, is a popular implant material used in a variety of microsurgery applications. Bioinertness and the ability to have smooth surfaces are two qualities that make polyethylene appropriate for otology implants. It is available in white and blue colors.

STAINLESS STEEL

Stainless steel (ASTM F 138, Grade 2) is a special quality implant-grade steel that has long been in use in medical implants. It has a balanced corrosion resistant chemistry and an extremely clean microstructure. Stainless steel parts are machined from rods. Wire made of this material is also used for many Gyrus ACMI products.

TITANIUM

Titanium (ASTM F 136) is used in many medical implants. It has excellent corrosion resistance and is well tolerated by tissue. The material is lightweight and MRI compatible.

MICRON®

Micron is Gyrus ACMI's patented finishing process for titanium implants. This proprietary chemical process not only smoothes the surface but also dulls it, which reduces glare.