

MINDRAY® MULTIFUNCTION ELECTRODES FOR ADULTS

(REF MR60)

- KEY FEATURES

- Disposable, self-adhesive multifunction electrodes for adults
- 100% Quality Control
- For up to 50 shocks (360J monophasic and biphasic)
- For up to 24 hours of monitoring
- For up to 1 hour of pacing using 140mA / 120ppM (pulse duration 20ms)
- For up to 10 minutes of pacing using maximum energy and frequency output



PRODUCT	
Characteristics	disposable, pre-gelled self-adhesive, single use non sterile
Size	adult
Shelf Life	36 months (unopened pouch)
Storage Conditions (min. / max.)	0°C / +50°C
Max. 10 days	-40°C / +75°C

PAD DIMENSIONS	
Electrode Shape	oval
Total Area [cm ²]	appr. 148
Adhesive Area [cm ²]	appr. 145
Gel Area / Active Area [cm ²]	appr. 87
Gel Thickness [mm]	0.60 / ± 0.10

STANDARD PACKAGING	
Pieces / Pouch	1 Set (2 pads / pouch)
Lot number and expiration date on every pouch	

MATERIALS PADS	
Backing Material	Adhesive PE-Foam
Conductive Material	Tin
Gel	Adhesive Hydro-Gel
Release Liner	Siliconized PET-Foil

CLASSIFICATION AND STANDARDS	
Classification (MDD Art. 9)	Class IIb
Compliant with MDD 93/42/EEC	

MATERIALS PACKAGING	
Pouch	PET / Al / PE (PET Polyester, Al Aluminium, PE Polyethylene)

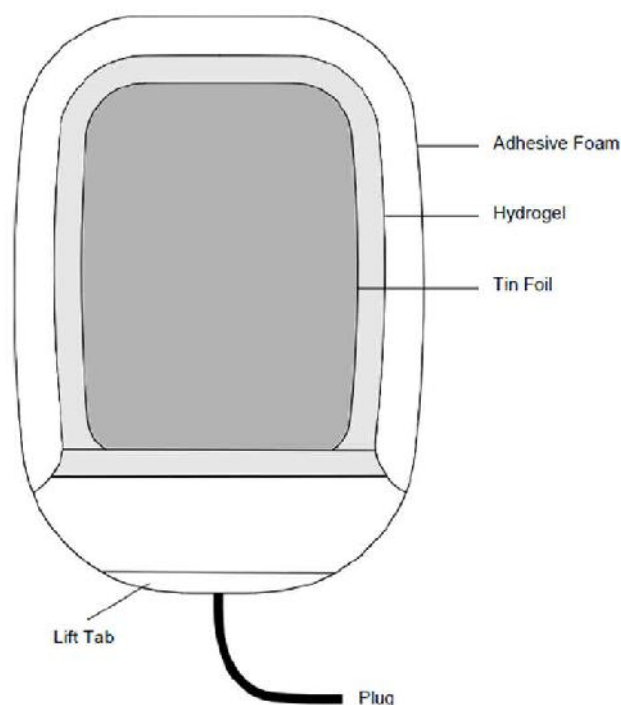
BIOCOMPATIBILITY			
ISO 10993	Backing Material (Adhesive)	Gel	Adhesive Tape
Cytotoxicity	pass	pass	pass
Skin Irritation	pass	pass	pass
Sensitization	pass	pass	pass*

*Test performed according to ASTM F720-81

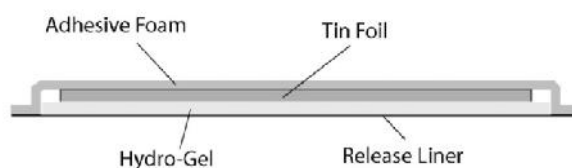
ELECTRICAL PERFORMANCE		Units	Typical Values	EN60601-2-4 Limits
DC Offset		[mV]	± 1.0	100
AC small signal impedance	• impedance at 10 Hz	[Ω]	≤ 50	≤ 3000
	• impedance at 30 kHz	[Ω]	≤ 0.5	≤ 5
AC large signal impedance	• in series with 50 Ω load, measured at E _{max} 360J	[Ω]	≤ 0.5	≤ 3

MINDRAY® MULTIFUNCTION ELECTRODES FOR ADULTS

- SCHEMATIC TOP VIEW

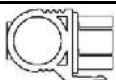


- SCHEMATIC CROSS SECTION



- ELECTRODE TYPES

MINDRAY MULTIFUNCTION ELECTRODES FOR ADULTS are available for different defibrillators:

Electrode type	Connector	Compatible with following defibrillators	Cable length
MR60		Mindray Beneheart D2, D3, D5, D6	1.20m preconnectable 0.45m cable out-of-pouch

MINDRAY® MULTIFUNCTION ELECTRODES FOR ADULTS

(REF MR62)

- KEY FEATURES

- Disposable, self-adhesive multifunction electrodes for adults
- 100% Quality Control
- For up to 50 shocks (360J monophasic and biphasic)
- For up to 24 hours of monitoring
- For up to 1 hour of pacing using 140mA / 120ppM (pulse duration 20ms)
- For up to 10 minutes of pacing using maximum energy and frequency output



PRODUCT	
Characteristics	disposable, pre-gelled self-adhesive, single use non sterile
Size	adult
Shelf Life	36 months (unopened pouch)
Storage Conditions (min. / max.)	0°C / +50°C
Max. 10 days	-40°C / +75°C

PAD DIMENSIONS	
Electrode Shape	oval
Total Area [cm ²]	appr. 126
Adhesive Area [cm ²]	appr. 123
Gel Area / Active Area [cm ²]	appr. 82
Gel Thickness [mm]	0.60 / ± 0.10

STANDARD PACKAGING	
Pieces / Pouch	1 Set (2 Pads / pouch)
Lot number and expiration date on every pouch	

MATERIALS PADS	
Backing Material	Adhesive PE-Foam
Conductive Material	Tin
Gel	Adhesive Hydro-Gel
Release Liner	Siliconized PET-Foil

CLASSIFICATION AND STANDARDS	
Classification (MDD Art. 9)	Class IIb
Compliant with MDD 93/42/EEC	

MATERIALS PACKAGING	
Pouch	PET / Al / PE
(PET Polyester, Al Aluminium, PE Polyethylene)	

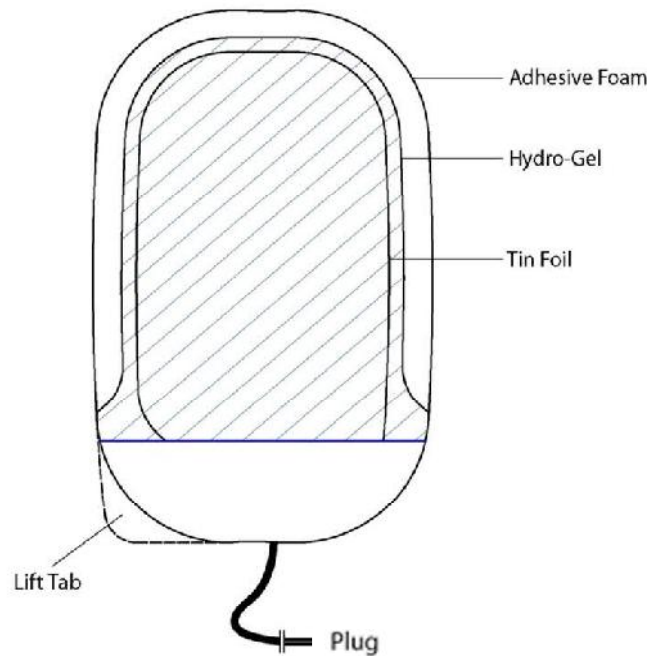
BIOCOMPATIBILITY			
ISO 10993	Backing Material (Adhesive)	Gel	Adhesive Tape
Cytotoxicity	pass	pass	pass
Skin Irritation	pass	pass	pass
Sensitization	pass	pass	pass*

*Test performed according to ASTM F720-81

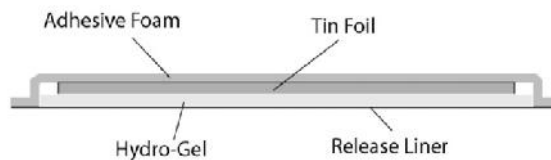
ELECTRICAL PERFORMANCE		Units	Typical Values	EN60601-2-4 Limits
DC Offset		[mV]	± 1.0	100
AC small signal impedance	• impedance at 10 Hz	[Ω]	≤ 50	≤ 3000
	• impedance at 30 kHz	[Ω]	≤ 0.5	≤ 5
AC large signal impedance	• in series with 50 Ω load, measured at E _{max} 360J	[Ω]	≤ 0.5	≤ 3

MINDRAY® MULTIFUNCTION ELECTRODES FOR ADULTS

- SCHEMATIC TOP VIEW




- SCHEMATIC CROSS SECTION



- ELECTRODE TYPES

MINDRAY MULTIFUNCTION ELECTRODES FOR ADULTS are available for different defibrillators:

Electrode type	Connector	Compatible with following defibrillators	Cable length
MR62		Mindray Beneheart D1	2.00m preconnectable 0.25m cable out-of-pouch

MINDRAY® MULTIFUNCTION ELECTRODES FOR PEDIATRICS

(REF MR61)

- KEY FEATURES

- Disposable, self-adhesive multifunction electrodes for pediatrics
- 100% Quality Control
- Designed for pediatrics up to 25kg
- For up to 25 shocks (100J monophasic and biphasic)
- For up to 8 hours of monitoring
- For up to 1 hour of pacing using 70mA / 140ppM (pulse duration 20ms)
- For up to 10 minutes of pacing using maximum energy and frequency output



PRODUCT	
Characteristics	disposable, pre-gelled self-adhesive, single use non sterile
Size	pediatric
Shelf Life	18 months (unopened pouch)
Storage Conditions (min. / max.)	0°C / +50°C max. 10 days -40°C / +75°C

PAD DIMENSIONS	
Electrode Shape	oval
Total Area [cm²]	appr. 75
Adhesive Area [cm²]	appr. 74
Gel Area / Active Area [cm²]	appr. 43
Gel Thickness [mm]	0.60 / ± 0.10

STANDARD PACKAGING	
Pieces / Pouch	1 Set (2 pads / pouch)
Lot number and expiration date on every pouch	

MATERIALS PAD	
Backing Material	Adhesive PE-Foam
Conductive Material	Tin
Gel	Adhesive Hydro-Gel
Release Liner	Siliconized PET-Foil

CLASSIFICATION AND STANDARDS	
Classification (MDD Art. 9)	Class IIb
Compliant with MDD 93/42/EEC	

MATERIALS PACKAGING	
Pouch	PET / Al / PE (PET Polyester, Al Aluminium, PE Polyethylene)

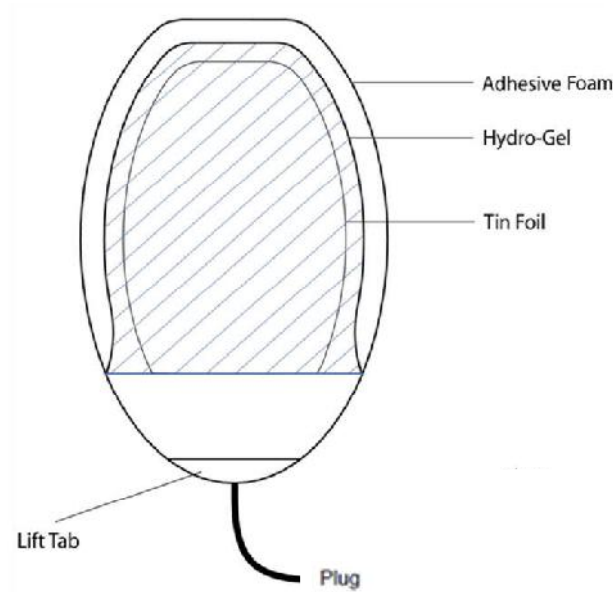
BIOCOMPATIBILITY			
ISO 10993	Backing Material (Adhesive)	Gel	Adhesive Tape
Cytotoxicity	pass	pass	pass
Skin Irritation	pass	pass	pass
Sensitization	pass	pass	pass*

*Test performed according to ASTM F720-81

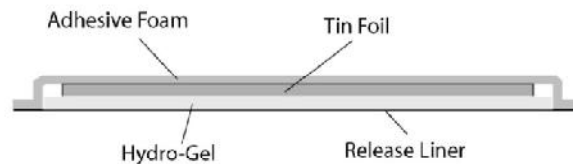
ELECTRICAL PERFORMANCE		Units	Typical Values	EN60601-2-4 Limits
DC Offset		[mV]	± 1.0	100
AC small signal impedance	• impedance at 10 Hz	[Ω]	≤ 50	≤ 3000
	• impedance at 30 kHz	[Ω]	≤ 0.5	≤ 5
AC large signal impedance	• in series with 50 Ω load, measured at E _{max} 360J	[Ω]	≤ 0.8	≤ 3

MINDRAY® MULTIFUNCTION ELECTRODES FOR PEDIATRICS

- SCHEMATIC TOP VIEW

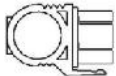


- SCHEMATIC CROSS SECTION



- ELECTRODE TYPES

MINDRAY MULTIFUNCTION ELECTRODES FOR PEDIATRICS are available for different defibrillators:

Electrode type	Connector	Compatible with following defibrillators	Cable length
MR61		Mindray Beneheart D2, D3, D5, D6	1.20 m

MINDRAY® MULTIFUNCTION ELECTRODES FOR PEDIATRICS

(REF MR63)

- KEY FEATURES

- Disposable, self-adhesive multifunction electrodes for pediatrics
- 100% Quality Control
- Designed for pediatrics up to 25kg
- For up to 25 shocks (100J monophasic and biphasic)
- For up to 8 hours of monitoring
- For up to 1 hour of pacing using 70mA / 140ppM (pulse duration 20ms)
- For up to 10 minutes of pacing using maximum energy and frequency output



PRODUCT	
Characteristics	disposable, pre-gelled self-adhesive, single use non sterile
Size	pediatric
Shelf Life	18 months (unopened pouch)
Storage Conditions (min. / max.)	0°C / +50°C max. 10 days -40°C / +75°C

PAD DIMENSIONS	
Electrode Shape	oval
Total Area [cm²]	appr. 75
Adhesive Area [cm²]	appr. 74
Gel Area / Active Area [cm²]	appr. 43
Gel Thickness [mm]	0.60 / ± 0.10

STANDARD PACKAGING	
Pieces / Pouch	1 Set (2 pads / pouch)
Lot number and expiration date on every pouch	

MATERIALS PAD	
Backing Material	Adhesive PE-Foam
Conductive Material	Tin
Gel	Adhesive Hydro-Gel
Release Liner	Siliconized PET-Foil

CLASSIFICATION AND STANDARDS	
Classification (MDD Art. 9)	Class IIb
Compliant with MDD 93/42/EEC	

MATERIALS PACKAGING	
Pouch	PET / Al / PE (PET Polyester, Al Aluminium, PE Polyethylene)

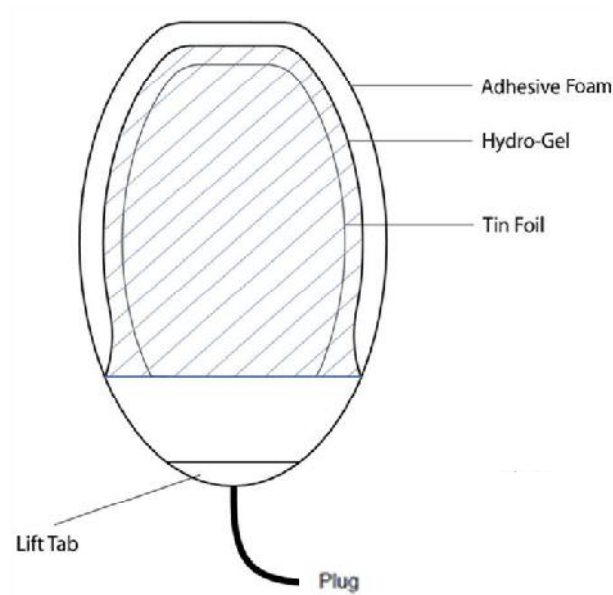
BIOCOMPATIBILITY			
ISO 10993	Backing Material (Adhesive)	Gel	Adhesive Tape
Cytotoxicity	pass	pass	pass
Skin Irritation	pass	pass	pass
Sensitization	pass	pass	pass*

*Test performed according to ASTM F720-81

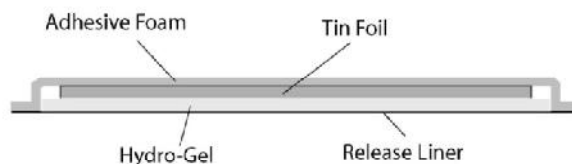
ELECTRICAL PERFORMANCE		Units	Typical Values	EN60601-2-4 Limits
DC Offset		[mV]	± 1.0	100
AC small signal impedance	• impedance at 10 Hz	[Ω]	≤ 50	≤ 3000
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MINDRAY® MULTIFUNCTION ELECTRODES FOR PEDIATRICS

- SCHEMATIC TOP VIEW




- SCHEMATIC CROSS SECTION



- ELECTRODE TYPES

MINDRAY MULTIFUNCTION ELECTRODES FOR PEDIATRICS are available for different defibrillators:

Electrode type	Connector	Compatible with following defibrillators	Cable length
MR63		Mindray Beneheart D1	2.05m preconnectable 0.25m cable out-of-pouch

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