



3M Science.
Applied to Life.™

Connections that last

A reference guide to 3M™ Red Dot™ ECG Electrodes

Performance Priced



3M™ Foam Monitoring Electrode 2228
4cm × 3.3cm
Diaphoretic, sticky gel



3M™ Red Dot™ Monitoring Electrode with Foam Tape and Sticky Gel 2560
4cm × 3.5cm
Diaphoretic



3M™ Red Dot™ Monitoring Electrode with Foam Tape and Sticky Gel 2570
4cm × 3.5cm
Diaphoretic, radiolucent, with abrader



Repositionable



3M™ Red Dot™ Repositionable Monitoring Electrode 2660
4cm × 3.2cm
Radiolucent



3M™ Red Dot™ Repositionable Monitoring Electrode 2670
4cm × 3.2cm
Radiolucent, stronger adhesive than 2660



Short Term Diagnostics



3M™ Red Dot™ Resting ECG Electrode 2330
2cm × 3cm
Radiolucent, gentle adhesive



3M™ Red Dot™ Resting ECG Electrode 2360
2cm × 3cm
Radiolucent, repositionable, stronger adhesive than 2330



Pediatric



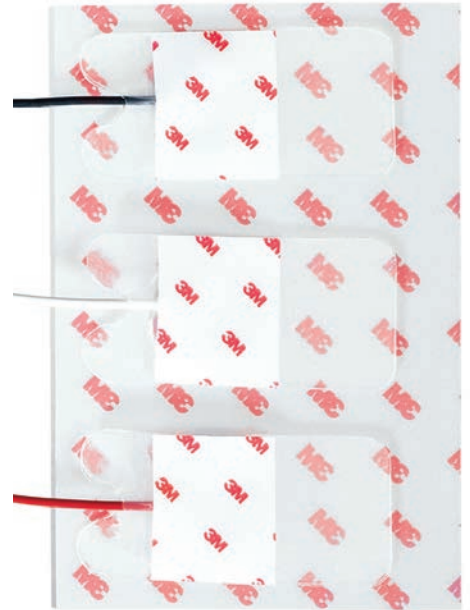
3M™ Red Dot™ Pediatric Monitoring Electrode with 3M™ Micropore™ Tape Backing 2248-50
4.4cm dia.
Solid gel



3M™ Red Dot™ ECG Monitoring Electrode 2268-3
3.2cm dia.
Conductive adhesive, soft cloth for Pediatric and Adult use



Pre-wired (Infant and Neonatal)



3M™ Red Dot™ Neonatal, Pre-Wired, Radiolucent Monitoring Electrode with Clear Tape 2269T
1.9cm × 4cm with 55.9cm leadwire length



Fragile Skin



3M Red Dot Monitoring Electrode with 3M Micropore Tape Backing 2239
6cm dia., Solid gel



3M Red Dot Soft Cloth Monitoring Electrode 2268-3
3.2cm dia.
Conductive adhesive for Pediatric and Adult use



3M Red Dot Soft Cloth Monitoring Electrode 2238
6cm dia., Solid gel

Diaphoretic



3M Red Dot Diaphoretic Soft Cloth Monitoring Electrode 2231
5.1cm x 5.5cm, Solid gel

Diaphoretic Fluid Resistant



3M Red Dot Monitoring Electrode with Foam Tape and Sticky Gel 2570
4cm x 3.5cm
Radiolucent with abradant



Fluid Resistant



3M Red Dot Clear Plastic Monitoring Electrode 2235
4.4cm dia., Solid gel



3M Red Dot Foam Monitoring Electrode 2237
4.4cm dia., Solid gel



3M Red Dot Foam Monitoring Electrode 2560
4cm x 3.5cm
with sticky gel

Ordering Information

Product No.	Description	Packaging
Performance Priced Options		
2228	Foam Monitoring Electrode, 3.7cm x 3.3cm with sticky gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
2560	Foam Monitoring Electrode, 4cm x 3.5cm with sticky gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
2570	Foam Monitoring Electrode, Radiolucent, 4cm x 3.5cm with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
Repositionable		
2660-3	Repositionable Soft Cloth Monitoring Electrode, 4cm x 3.2cm Radiolucent with Lift Tab	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
2660-5	Repositionable Soft Cloth Monitoring Electrode, 4cm x 3.2cm Radiolucent with Lift Tab	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case
2670-5	Repositionable Soft Cloth Monitoring Electrode, 4cm x 3.2cm Radiolucent with Aggressive Adhesive and Lift Tab	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case
Short Term Diagnostics		
2330	Resting Tab Style ECG Diagnostic electrode with Gentle Adhesive	4000 electrodes/case, 10/card, 10 card/bag, 40 bag/case
2360	Resting Tab Style ECG Diagnostic electrode with Aggressive Adhesive	4000 electrodes/case, 10/card, 10 card/bag, 40 bag/case
Pediatric		
2248-50	Micropore Paper Tape Monitoring Electrode 4.4cm dia. with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2268-3	Soft Cloth Monitoring Electrode 3.2cm dia. with Conductive Adhesive and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
Pre-wired (Infant & Neonatal)		
2269T	Neonatal Monitoring Electrode, Pre-Wired with Clear Tape, 1.9cm x 4cm) with 55.9cm Radiolucent Leadwires	300 electrodes/case, 3/bag, 10 bag/box, 10 box/case
Fragile Skin		
2238	Soft Cloth Monitoring Electrode, 6cm dia. with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2238-5	Soft Cloth Monitoring Electrode, 6cm dia. with Solid Gel and Lift Tab	1000 electrodes/case, 5/bag, 200 bag/case
2239	Micropore Paper Tape Monitoring Electrode 6cm dia. with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2268-3	Soft Cloth Monitoring Electrode 3.2cm dia. with Conductive Adhesive and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
Diaphoretic		
2231	Diaphoretic Soft Cloth Monitoring Electrode 2.2 inch x 2 inch (5.1cm x 5.1cm) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
Fluid Resistant		
2235	Clear Plastic Monitoring Electrode 5.1cm dia. with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2237	Foam Monitoring Electrode 4.4cm dia. with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2560	Foam Monitoring Electrode 4cm x 3.5cm with sticky gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
2570	Foam Monitoring Electrode, Radiolucent, 4cm x 3.5cm with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
Skin Prep		
2236	Trace Prep	1 roll, 36 roll/case

MRI Information

MR Conditional



The 3M™ Red Dot™ Cardiac Monitoring Electrodes (2268, 2269T, 2570, 2660 or 2670) or 3M™ Red Dot™ Resting Electrodes (2330 or 2360) were determined to be MR conditional. Non-clinical testing demonstrated that the 3M Red Dot cardiac monitoring electrodes (2268, 2269T, 2570, 2660 or 2670) or 3M Red Dot resting electrodes (2330 or 2360) are MR conditional. A patient with this device can be scanned safely immediately after placement under the following conditions:

Static Magnetic Field

- Static magnetic field of 3-Tesla or less
- Maximum spatial gradient magnetic field of 720 or 4000 (See Table Below)-Gauss/cm or less

MRI-Related Heating

In non-clinical testing, the 3M Red Dot cardiac monitoring electrode or 3M Red Dot resting electrode produced the following temperature rise during MRI performed for 15-min of scanning (i.e., per pulse sequence) in the 3-Tesla (3-Tesla/128-MHz, Excite, HDx, Software 14X.M5, General Electric Healthcare, Milwaukee, WI) MR system: *Highest temperature change of +1.7°C was measured during the testing of the 3M™ Red Dot™ Neonatal, Pre-Wired, Radiolucent Monitoring Electrode 2269T.*

Therefore, the MRI-related heating experiments for the 3M Red Dot cardiac monitoring electrode or 3M Red Dot resting electrode at 3-Tesla using a transmit/receive RF body coil at an MR system reported whole body averaged SAR of 2.9 -W/kg or less (**see Table Below**) (i.e., associated with a calorimetry measured whole body averaged value of 2.7-W/kg) indicated that the greatest amount of heating that occurred in association with these specific conditions was equal to or less than +1.7°C.

Artifact Information

MR image quality may be compromised if the area of interest is in the exact same area or relatively close to the position of the 3M Red Dot cardiac monitoring electrode or 3M Red Dot resting electrode. Therefore, optimization of MR imaging parameters to compensate for the presence of this device may be necessary. The maximum artifact size (i.e., as seen on the gradient echo pulse sequence) for each electrode extends a few millimeters relative to the size and shape of the 3M Red Dot cardiac monitoring electrode or 3M Red Dot resting electrode.

3M Electrode	Electrode Type	Maximum Spacial Gradient Field (Gauss/cm)	SAR (W/Kg)	Max Heating (°C)	Artifact (mm extended)
2268	Cardiac Monitoring	4000	2	1.4	3
2269T	Pre-Wired Cardiac Monitoring	4000	2	1.7	5
2570	Cardiac Monitoring	720	2.9	<1.5	2
2660	Cardiac Monitoring	720	2.9	<1.5	2
2670	Cardiac Monitoring	720	2.9	<1.5	2
2330	Resting	4000	2	1.3	1
2360	Resting	4000	2	1.3	1

Important Note: This 3M™ Red Dot™ ECG Electrode that underwent MRI testing was not connected to an electrocardiograph (ECG) lead and/or an MR conditional monitoring system. Therefore, the safety of using this 3M Red Dot ECG electrode attached to an ECG lead and/or MR conditional monitoring system is unknown. Furthermore, an MR conditional monitoring system typically requires use only with ECG electrodes specifically designed and tested with that specific equipment. It is unknown if this 3M Red Dot ECG electrode is acceptable for use with an MR conditional ECG monitoring system designed to be used to monitor a patient undergoing an MRI procedure.



3M Infection Prevention Division

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PB8180-03-17

**Always read the label and
follow the instructions.**