



Expect Service

Radiation Products Design Inc

INSTRUCTIONS

RPD INFORMATION

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RPD PRODUCT INFORMATION

Item Number	Eye Shields
934-012	Silver-Plated Lead, Small
934-014	Silver-Plated Lead, Medium
934-016	Silver-Plated Lead, Large
934-018	Silver-Plated Lead, Extra Large w/Window
934-008	Silver Plated Eye Shields (4 pair) w/Case (Item Discontinued in 2011)

SPECIAL PRECAUTIONS

Immediately remove the eye shield if the patient has any of the following problems:

- Eye pain - such as: stinging, burning, itching, excessive watering, etc. These problems are usually caused by soap residue on the eye shield.
- Unusual eye secretions.

DO NOT store in liquid, **MUST** store dry

DO NOT use or store in a sodium chloride or sodium nitrite solution, as this will cause the silver coating on the eye shield to dissolve. Products that contain sodium chloride or sodium nitrite include, but not limited to, saline solutions, PSS Select Glutaraldehyde Plus and CidexPlus. It is RPDinc's recommendation not to use any solution that is sodium based, as this may cause the silver coating on the eye shield to dissolve.

Rinse before and after use with sterile water.

Always consult the Radiation Physicists when using lead eye shields in electrons. 6MeV electrons have had a reported 16-25% transmission factor.

Electron backscatter from lead eye shields has been reported to be 40% to 50%.

Please check the following paper: Field Shaping in Electron Beam Therapy by F.M. Khan, Ph.D., Oct, 1976, British Journal of Radiology.

EXAMINING

Before each use and prior to sterilizing, examine eye shields for burrs or rough edges, which could have occurred through normal use.

CLEANING

Washing can be done with soap and water. Be sure to rinse thoroughly to remove all soap residues from eye shield.

Sterile water may be used. Do not use or store in a sodium chloride or sodium nitrite solution, as this will cause the silver coating on the eye shield to dissolve. Products that contain sodium chloride or sodium nitrite include, but not limited to, saline

solutions, PSS Select Glutaraldehyde Plus and CidexPlus. It is RPDinc's recommendation not to use any solution that is sodium based, as this may cause the silver coating on the eye shield to dissolve.

STERILIZATION

Cidex OPA Soak in Cidex OPA for 12 minutes. Then rinse in 3 different batches of sterile water to remove all traces of Cidex OPA.

NOTE: This product does not require ACTIVATION

Sterrad®
50
200
100S
NX™
100NX™

Uses Hydrogen Peroxide solution; temperature must not exceed 140°F. This type of sterilization will cause the silver to tarnish, which can easily be removed with silver polish.

Any quality Germicidal Solution mixed with the recommended amount of water will be satisfactory. Germicides containing a Quaternary Ammonium derivative should not be relied on to destroy spore bearing organisms or Mycobacterium tubercles or the etiologic agent of viral hepatitis. Thus, eye shields suspected of such contamination should be sterilized.

DO NOT USE Steris System # 1 that contains a peracetic acid solution that will cause corrosion.

Autoclave

High temperature heat sterilizer

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STORAGE

Store dry, but rinse before and after use with sterile water.

DO NOT use or store in saline (sodium chloride) solution. The sodium chloride will cause the silver to dissolve.

WAX COATING

Eye Shields can be coated with a dental base plate wax, Item 933-120. The wax is melted in a small stainless steel wide top container on a small electric warmer plate, Item 933-140. When the wax is melted, grip eye shields with forceps and dip into wax for ten seconds and remove. Then constantly rotate in all directions while wax is cooling, to prevent the wax from building up in any one place. If the wax temperature is too low, it may go on the eye shield too thick and be bumpy. If the wax temperature is too high, it will not coat the eye shield very thick. See Wax Coating-The Physics of Radiation Therapy by Faiz M. Khan, Ph.D. under D. Internal Shielding-last paragraph.

REMOVING WAX FROM EYE SHIELD

Place eye shield in hot, soapy water. Wax should become soft enough to peel off. Repeat procedure, if necessary, until all wax is removed. Eye shield is then ready for sterilization and wax recoating

WARRANTY

1 year from date of purchase.

ACCESSORIES

Item #	Description
466-401	Cidex OPA, 1 gal
466-403	Cidex OPA Solution Test Strips, 60 strips/ bottle
934-020	8 Compartment Box for Eye Shields

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