

# A.I. Sheath

## • Product Overview

- **A.I. Sheath** (Artificial Insemination Sheath) Is A Crucial Device Used For Semen Deposition In Both Human Assisted Reproductive Technologies And Veterinary Artificial Insemination Practices.
- It Acts As A Protective Cover For The Insemination Pipette Or Catheter.

## • Sizes & Shapes

- Common Sizes: 8mm, 10mm, 12mm, 14mm, And 16mm Diameter
- **Mini Size:** Designed For Smaller Animals Like Sheep, Goats, And Some Specialized Human Applications Requiring Smaller Catheters
- **Universal (Standard) Size:** Fits Most Common Livestock Like Cattle, Buffalo, Pigs, Horses, And General Veterinary Or Human Use
- Shapes: Straight, Tapered, Conical, And Curved Varieties Depending On Species And Application
- Lengths: Vary From 12cm To 20cm Depending On Animal Or Human Use

## • Types Of A.I. Sheath

- Disposable (Single-Use)
- Reusable (Autoclavable)
- Sterile Pre-Packaged
- Non-Sterile Bulk Packaging

## • Materials

- Medical-Grade Polyethylene (Pe)
- Polyvinyl Chloride (Pvc)
- Silicone (In Some Specialized Versions)
- Latex-Free Options Available For Allergy-Sensitive Cases

## • Hs / Hsn Code

- **Hs Code:** 3926.90 (Other Articles Of Plastics)
- **Hsn Code:** 39269090 (Based On Indian Gst Tariff)
- Note: Codes May Vary Slightly Depending On Region And Specific Product Classification.

## • Product Form

- Tubular Sheaths
- Flexible Sleeves

- Pre-Formed Cones

## • **Category**

- Medical Device
- Veterinary Equipment
- Reproductive Health Supplies

## • **Usage**

- To Cover Insemination Pipettes/Catheters To Prevent Contamination
- Facilitate Smooth Insertion Into Reproductive Tract
- Used In Artificial Insemination Procedures In Cattle, Buffalo, Horses, Pigs, Sheep, Goats, And Humans

## • **Faqs**

### **Q: Are A.I. Sheaths Reusable?**

- Generally, Disposable Sheaths Are Preferred To Avoid Infection; Reusable Ones Must Be Properly Sterilized.

### **Q: Can The Sheath Be Used For All Animal Species?**

- Sheaths Come In Various Sizes Tailored For Specific Species.

### **Q: Are These Sheaths Latex-Free?**

- Many Are, Especially For Human Use, To Avoid Allergic Reactions.

### **Q: How To Ensure Sheath Sterility**

- Use Pre-Sterilized Packaging Or Sterilize By Autoclaving If Reusable

## • **Description & Specification**

<b>Parameter</b>	<b>Details</b>
Material	Medical-Grade Pe/Pvc
Size Range	8mm - 16mm Diameter
Length	12cm - 20cm
Sterilization Method	Gamma Radiation, Ethylene Oxide, Autoclaving
Colour	Transparent Or Lightly Tinted
Packaging	Individually Packed Sterile Pouches Or Bulk

## • **Advantages**

- Ensures Hygienic Semen Transfer
- Minimizes Risk Of Contamination
- Easy To Use And Disposable Options Available
- Available In Various Sizes And Materials/ Compatible With Multiple Ai Pipettes And Catheters

## • **Disadvantages**

- Single-Use Sheaths Generate Medical Waste
  - Reusable Sheaths Require Strict Sterilization Protocols
  - Potential Allergic Reactions If Latex Used

## • **Precautions**

- Always Use Sterile Or Properly Sterilized Sheaths
- Avoid Reuse Unless Sterilized Properly
- Check For Tears Or Damage Before Use
- Store In A Clean, Dry Place Away From Contaminants

## • **Handling Instructions**

- Handle With Clean Gloves To Maintain Sterility
- Open Packaging Carefully To Avoid Contamination
- Dispose Of Single-Use Sheaths Responsibly After Use

## • **Sterilization Details**

- Gamma Irradiation Or Ethylene Oxide For Factory Sterilization
- Autoclaving (121°C For 15-20 Minutes) For Reusable Sheaths
- Chemical Sterilant For Sensitive Materials (Follow Manufacturer Guidelines)

## • **Human Application**

- Used In Assisted Reproductive Technologies Like Intrauterine Insemination (IUI)
- Covers Insemination Catheters For Semen Deposition Into The Uterus
- Requires Latex-Free And Biocompatible Materials
- Must Meet Strict Medical Device Regulatory Standards

## • **Veterinary Application**

- Used Extensively In Livestock Breeding Programs (Cattle, Buffalo, Pigs, Horses)
- Helps In Artificial Insemination By Protecting AI Gun Or Catheter
- Available In Sizes Specific To Animal Species
- Used In Both Commercial And Small-Scale Farming