

## **IS 3319: 1995 Blades, Surgical, Detachable (Bard Parker Type) and Handles**

Surgical blades are essential tools in medical procedures that require precision and safety. The quality of surgical blades is paramount because they directly impact the outcome of surgeries and safety of both the patient and the surgeon. Surgical blades are required provide clean, accurate incisions with minimal tissue damage, promoting faster healing and reducing the risk of infection.

Bard-Parker type detachable surgical blades are widely used surgical blades which are designed to be easily detachable and securely attached to a handle, providing flexibility and precision during surgical procedures. These blades are typically used for making precise incisions in soft tissues and are often employed in both general and specialized surgeries.

IS 3319 gives the specifications for Bard-parker type blades with respect to **material** of both blade and handle as well as packing material, **shape and dimensions** of blade and handle for **small and large size fittings**, workmanship and finishing requirements. It also specifies the required **heat treatment** for ensuring hardness of minimum 700 HV for stainless steel blade and minimum 750 HV for carbon steel blade, hardness for rest of the blade being minimum 500 HV.

Method of tests include **performance testing** used for ensuring proper **cutting action** of the surgical blade and visual examination to check the uniformity of the cutting edge of the blade.

The standard also specifies the method of **sterilization** and sterilization conditions as well as guidelines of sterilization with respect to its bioburden history.

In addition to the general and performance requirements, the standard also specifies marking and packaging requirements. Packaging requirements include different packages (primary/unit containers and outer containers) to be used for non-sterile blades and sterile blades. Packaging of handles have also been given separately.