



## **IS 14746:1996- RESPIRATORY PROTECTIVE DEVICES - HALF MASKS AND QUARTER MASKS**

These respiratory protective masks are meant to cover the nose and mouth (half masks) or part of the face below the nose (quarter masks), offering filtration and protection against airborne contaminants. They are designed to protect against particulates, certain gases, and vapors, depending on the intended application and filter type.

IS 14746:1999 set the requirements for half masks and quarter masks used for respiratory protection in various environments, including industrial and healthcare settings.

The standard outlines specifications for the **materials, construction, performance**, and testing of half masks and quarter masks designed to protect users from respiratory hazards. Masks must meet specific criteria for **filtration efficiency, breathability, and durability** under defined test conditions. It also encompasses design elements such as **face seal, fit, comfort, and stability**. Proper sealing is crucial to ensure that the mask effectively prevents contaminated air from bypassing the filter. Test methods to evaluate the mask's performance, including **resistance to inhalation and exhalation, filtration efficiency, and fit**.

Half masks and quarter masks conforming to IS 14746: 1999 are commonly used in industries such as **construction, mining, and chemical processing**, where respiratory protection is needed.

This standard is a vital guideline for manufacturers and users to ensure that respiratory protective devices provide **effective and reliable protection under Indian industrial conditions**.