



## TECHNICAL DATA SHEET

### UD 90 Safety Spectacle

#### Product Introduction:

- Udyogi UD-90 Safety Spectacles are designed to offer superior protection for workers in various industrial environments.
- These brow guard frame with polycarbonate lenses provide ideal impact protection around the eyes.
- Designed to meet IS 8521-Part-1:2022 ; EN166 :2001, CE and standard, which covers requirements for optical quality, mechanical strength, and impact protection.



#### Features:

- Brow guard temple with polycarbonate lens provides side protection.
- Anti-fog & hard coating on lens ensures that the lenses remain clear even in humid environment and prevents scratches that expands shelf life
- Modern temple design & soft nylon temple tips contour to fit head shapes without stress
- Lens offers users the clearest and the most panoramic view without obstruction
- Lens filters out 99.9% of harmful UV light
- On-piece lens, with dual 10 base curvature
- Fashionable design resembles spectacle, suitable for both men and women

#### Benefits:

- **Impact Resistance:** The polycarbonate lenses offer excellent resistance to high-velocity impacts, protecting the eyes from flying particles, sparks, and debris in industrial environments
- **Enhanced Comfort:** Polycarbonate is a lightweight material, reducing strain during prolonged use. Soft Nylon temple provides extra comfort for long time use.
- **Recyclable:** Polycarbonate is recyclable. After the safety spectacles reach the end of their useful life, they can be recycled, helping to reduce environmental impact.
- **Durability:** The robust construction and weather-resistant properties of the Polycarbonate shell ensure long-lasting performance, even in harsh conditions.

#### Udyogi



### Product Specifications:

**Model:** UD 90 - Safety Spectacle

**Lens Component:** Polycarbonate

**Temple Component:** Nylon

**Nose piece:** soft TPR

**Lens option:** Clear & Grey

**Optical Class:** 1

**Filter:** 2C-1.2 (Clear); 2C-2.5 (Gray)

**Impact Resistance:** F (45 m/s)

**Coating:** K (Hard Coat) & N (Anti-fog)

**Weight:** 26 grams

**Temple Length:** 100 mm.

**Width between temple tips:** 112 mm.

**Hinge to hinge width:** 143 mm.

**Max height of Lens:** 42 mm.

**Packaging:** 100 pcs. per carton

**Standard:** IS 8521-Part-1:2022; EN166 :2001, CE

### Variants



Gray

### Applications:

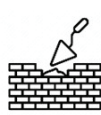
- Protects eyes exposed to high speed-low-energy impacts.
- Protection from flying rock, dust, debris, cement particles, metal shards, machinery hazards etc.
- Shields against liquid splashes and hazardous materials.

### Industry:

These spectacles are utilized for their protective and practical features in various industries such as



Mining



Construction



Railway



Iron & Steel



Oil & Gas



Marine



General  
Manufacturing



Power



Aerospace



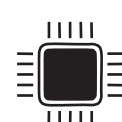
FMCG



Automobile



Agriculture



Electronics  
Manufacturing



Food & Breweries



### **Safety Information :**

- Avoid Exposure to low Temperatures although polycarbonate is durable, prolonged exposure to extreme heat may affect its integrity.
- Check the spectacles regularly for any cracks, scratches, or damage. Replace them if the integrity is compromised to ensure continued protection.
- Clean the lenses regularly with a soft, clean cloth to maintain clear vision. For stubborn dirt or chemical residue, use mild soap and water.

### **Usage Instructions :**

- Place the spectacles over your eyes, ensuring they fit securely.
- Adjust the temples so the spectacles sit comfortably on your nose & ears
- Ensure the lenses cover your entire eye area, providing maximum protection without obstructing your vision.

### **Storage :**

- Can be stored in the dark for up to 2 years
- Do not store in direct / high heat or sunlight as this may distort the color
- Can be stored and transported in their original cartons at ambient temperature (0° C to +30° C)