

IS/ISO 22523:2006, External Limb Prostheses And External Orthoses — Requirements And Test Methods

IS 22523:2006 outlines the technical specifications, safety requirements, and testing methods for external limb prostheses and orthoses, ensuring they meet the needs of users with physical disabilities. The standard provides a framework for materials, strength, performance, and user safety.

Key Technical Specifications and Desirable Properties

1. Strength and Load-Bearing Capacity
2. Material Requirements
3. Safety Features
4. Ergonomic Design

Testing Requirements

1. Mechanical Strength Tests:
 - Static Load Tests
 - Dynamic Load Tests
2. Fatigue and Durability Tests
3. Biocompatibility Tests
4. Safety and Performance Tests for Electronics
5. Environmental Resistance Tests

Devices must include labeling with information on load limits, intended use, and safety precautions. Manufacturers must also provide user instructions and maintenance guidelines to ensure long-lasting functionality.