



## **IS 5143:2024 Adjustable Axillary Crutches - Specification (Third Revision)**

Adjustable axillary crutches are type of crutches which are manufactured to assist people with lower limb injuries or disabilities. These are to be used by individuals with mobility challenges. Crutches can be made up of aluminum or wooden material.

Adjustable crutches are expected to be Strong, comfortable, durable and adjustable to different heights without compromising safety.

IS 5143 specifies functional and dimensional requirements of adjustable axillary wooden or aluminum crutches. Standard has following key requirements:

1. **Materials:** It specifies species of timber, leather cloth for arm piece, type of foam rubber for padding, aluminum and mild steel to be used for manufacturing of crutches.
2. **Shape and Dimensions:** It specifies general shape and dimensions of the crutch
3. **Workmanship and Finish:** It specifies that crutches should have smooth surfaces, rounded edges, and a varnished or painted protective finish. The mild steel component shall be chromium plated over nickel.

Standard specifies following two tests for crutches manufactures as per this standard:

- **Strength Test:** Crutches are subjected to load-bearing tests to ensure durability under different conditions.
- **Drop Test:** Ensures crutches remain undamaged after being dropped from a set height of 1.5 meter.

Adjustable axillary crutches manufactured as per IS 5143 are expected to ensure needs of the customers.