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मानक

IS 10023 (1981): ascenders for mountaineering [PGD 27:

Mountaineering Equipment]



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INDIAN STANDARDS INSTITUTION MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

#### IS: 10023 - 1981

5. Mass — The mass for a pair of ascender shall be 220 g, Max.

#### 6. Manufacture

6.1 The main body, latch and jaw of ascenders shall be of die casting. They shall be free from sharp edges or other formations likely to damage climbing rope or injure the user.

**6.2** The ascenders shall be free from cracks, pits, burrs, etc, likely to cause damage or injure the climbing rope or user.

**6.3** The ascenders shall be given anodic coating to Grade AC15 of IS : 1868-1968 'Specification for anodic coatings on aluminium (*first revision*)'.

#### 7. Tests

**7.1** Test for Spring — The jaw and the latch shall be fully opened and released 200 times. After completing the test, the spring fitted inside the jaw and the latch shall not take a permanent set in that both the jaw and the latch shall function efficiently and spring back without striking or jamming as soon as it is released from the open position at the conclusion of this test.

7.2 Crack Test — Each ascender shall be subjected to crack detection test.

8. Marking — Each ascender shall be legibly marked with the manufacturer's name, initial or recognised trade-mark.

8.1 ISI Certification Marking — Details available with the Indian Standards Institution.

### EXPLANATORY NOTE

This standard lays down the requirement for ascenders for mountaineering. Although maximum mass has been given, however, all efforts shall be made to lower the mass of the ascenders without lowering the strength.

The standard lays down that the body of the ascenders shall be of die casting. They are also made by forging. A note of caution may be added that it has been observed that die cast bodies fail in a brittle manner whereas the forged bodies fail by plastic collapse if the bodies are grossly over loaded.