

IS 18118 : 2023 Textiles — Flat Woven Webbing Slings Made from Blend of Polyester Multifilament and High Strength Mixed Polyolefin Tapes — Specification

The **webbing sling** that is a blend of polyester multifilament and high strength mixed polyolefin tape have higher lifting capacity along with better abrasion, cut resistance and grip as compared with slings made up of wholly multifilament.

The **Indian Standard IS 18118**, outlines the standards for flat woven webbing slings made from a blend of polyester multifilament and high-strength polyolefin tapes, used primarily for lifting and handling heavy loads. These slings are designed to support a range of industrial applications, including lifting metal pipes, concrete drums, and other heavy items, by ensuring strength, flexibility, and safety during usage.

The **quality** parameters valued by consumers high-quality webbing slings to demonstrate **durability, tensile strength, cut resistance, and energy absorption**, ensuring safe and reliable performance in challenging environments. Additionally, essential parameters include resistance to chemicals, UV degradation, and microbial attack, as well as a secure assembly and **compatibility** with lifting equipment. For **safety**, these slings must bear significant weight loads without showing damage under typical working conditions. Compatibility with various industrial applications, clear labelling, and safety testing are also top priorities for consumers.

To meet these expectations, the standard specifies detailed manufacturing requirements, including materials and **weaving techniques**, which ensure uniformity, strength, and **minimal elongation** under load. Safety factors, assembly configurations, and guidelines for secure end fittings are detailed to minimize the **risk of failure**. Testing procedures, such as **proof loading and tensile testing**, verify each sling's strength and load capacity, while inspection and maintenance guidelines help users detect potential wear and extend the product's lifespan. Furthermore, the document mandates labelling requirements for easy identification, safe usage, and traceability of each sling. Together, this standard offer a comprehensive approach to ensuring that flat woven webbing slings meet high safety and performance criteria, addressing consumer expectations for robust, reliable lifting solutions.