

## FORMAT FOR SYNOPSIS OF INDIAN STANDARDS



### Number and Title of the Indian Standard:

**IS 17299:2019      Reinforcement yarns -- Determination of twist**  
**/ISO 1890:2009**

Doc TXD 40 (14019)

### Scope:

This International Standard specifies a method for the determination of twist in yarns made from textile glass, carbon, aramid or any other reinforcement fibres.

The method applies to single yarns (one twist) and to folded or cabled yarns (two or more twists). For folded and cabled yarns, the method is generally applied only to the final twist step.

This International Standard is applicable to package-wound yarns. If the measurement is carried out on yarns taken from a beam (or warp) or from a fabric, the result is of an indicative nature only.

The method is not applicable to products made from staple fibres.

### Salient features of content:

The twist in a specimen of known length is removed by untwisting, i.e. by turning one of the ends of the specimen with regard to the other, until all the elements (yarns, filaments) constituting the specimen are parallel.

The direction of twist in the yarn is noted and the value of the twist is expressed as the number of turns needed to eliminate the twist in 1 m of yarn.

The determination of the twist must allow for the fact that the take-off system may have an influence on the result.

Thus when the yarn is taken off tangentially, the degree of twist inserted by the twist frame is not changed. On the other hand, if the yarn is taken off over-end, the measured twist is modified depending on the circumference of the bobbin. It will increase or decrease depending whether the yarn is taken off from alternate sides of the package.

The method specified in this International Standard is based on the tangential take-off system.

### Types/Grades/Classes, if any covered in the standard: