

Abstract

The invention is concerned with a spinning device for carrying out the amine-oxide process according to the dry/wet-spinning process having

- a spinneret having spinning holes for extruding filaments,
- a blowing device whereby said extruded filaments may be cooled immediately after being delivered from the spinning holes,
- a container containing spinning bath liquid,
- a bundling means provided in said spinning bath liquid for bundling the extruded filaments and
- an air gap defined as the distance of the spinneret to the surface of the spinning bath liquid,

characterized in that

- said bundling means is located at such a distance from said spinneret that the angle (α) formed by the filaments with respect to the vertical to the surface of said spinning bath liquid does not exceed 45° and that the relation

$$0,1+0,0051 \leq 0,7 \cdot d_0 \cdot \frac{(h-1)}{h}$$

is fulfilled, wherein d_0 is the distance (mm) between a spinning hole and its neighbouring spinning hole on said spinneret, h is the distance (mm) of said bundling means to said spinneret and l is said air gap (mm),

$$0,4 \text{ mm} \leq d_0 \leq 2 \text{ mm and} \\ 0 \text{ mm} < l < 60 \text{ mm.}$$

(Fig. 1)