

Title (en)
POLYESTER FIBER AND METHOD FOR PRODUCING SAME

Title (de)
POLYESTERFASER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
FIBRE DE POLYESTER ET SON PROCÉDÉ DE PRODUCTION

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Abstract (en)
The present invention relates to a high strength and high elongation polyester fiber being used for anchoring, mooring, or towing a ship. Particularly, the present invention relates to a polyester fiber wherein the recovered work ratio at the elongation corresponding to 10% of the maximum load measured at room temperature is 70% or more, the recovered work ratio at the elongation corresponding to 20% of the maximum load is 50% or more, and the recovered work ratio at the elongation corresponding to 30% of the maximum load is 40% or more, a method of preparing the same, and a polyester fiber rope including the same. Since the polyester fiber of the present invention has sufficient strength and elongation and secures superior mechanical properties by including the filaments having the high strength, the high elongation, and the high recovered work ratio, it becomes possible to prepare the rope which can minimize the fiber breaking, can improve the shock absorption performance noticeably, and can secure the superior life and the sufficient stability of the rope, even if there is a change of external environment such as the rough sea and the severe rolling of a ship.

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