

# STOPFIRE



*Antiflame polyester*

colours & yarns for weaving

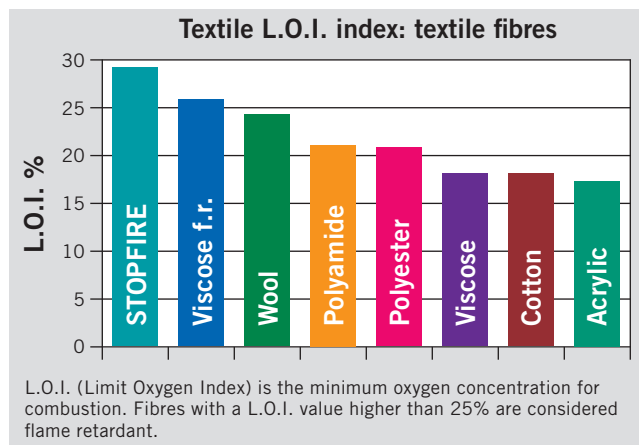
**STOPFIRE** was born from a flame retardant polyester fibre, with permanent and high quality self-extinguishing and flame retardant properties. It is additivated only with phosphorus compounds, without the presence of any halogens.

The flame retardant property of **STOPFIRE** is obtained by adding a phosphorous based comonomer as a flame retardant agent during the preparation of the raw material. This agent, becoming part of the polymer chain during the synthesis of the polymer, assures permanent flame retardant properties which, unlike those obtained by treating the fabric surface, are preserved over time and resist to use (removal by abrasion) and maintenance (washing, ironing, brushing).

Flame retardant properties act through the catalytic effect of inhibition, raising the amount of oxygen required for ignition (L.O.I.).

**STOPFIRE** is available in several versions: as a flat yarn (FILANDA), as a false twist textured filament yarn (TXT) or air jet textured yarn (AIRLAN®) and as a staple yarn (VALTROMPIA), in order to meet all the market needs for knitting and weaving, through a full range of raw white, package dyed and dope dyed yarns. **STOPFIRE** yarns maintain unchanged the characteristics of reliability and easy workability of polyester in all stages of the textile industry processes, offering the market of flame retardant textile goods a valid alternative, characterized by the following key points:

- Comprehensive and versatile product range
- Optically bleached fibre
- Solid and bright colours
- Excellent resistance to abrasion



Of particular relevance to the cotton spinning system industry is the workability in both open end and ring spinning, the uniformity of the batch, the high productivity and mechanical properties of these yarns. The toxicological analysis of fumes produced by combustion, performed at independent laboratories, has given largely positive results.

### PHYSICAL CHARACTERISTICS

Density	(g. cm <sup>3</sup> )	1,38
Melting Point	(°C)	> 220
Moisture regain	(20°C - 65% U.R.) (%)	0,4
Thermal conductivity	(Cal. cm. -1 sec. -1 °C -1)	2,10 - 4
Specific heat	(Cal. g. -1 °C -1)	0,32
Limit oxygen index	%	28 - 30

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