



PROPERTIES The inherent flame resistance is imparted at the molecular level during manufacture of the polyester fiber and will not wash or wear out. Certified FR SPECTRUM meets or exceeds the following FR test standards :-

- NFPA 701-1999 (USA)
 - BS 5867 & BS 5852 (UK)
 - M1 (France)
 - B1 & B2 (Germany)
 - IMO A-471 (Marine)
- and most other standards worldwide

CHARACTERISTICS Good dimensional stability, excellent color fastness, excellent strength, durability and desirable hand. FR SPECTRUM fabrics exhibit the same properties as regular polyester but with the added benefit of flame resistance. FR SPECTRUM fabrics can be dyed and heat transfer printed with no impact on FR performance.

CLEANING FR SPECTRUM fabrics can be washed and dry cleaned. By properly following our guidelines, stains can be treated without affecting the flame resistance. FR SPECTRUM fabrics have a longer lifetime than typically treated competitors.



Quality Management System
Environmental Management System
Occupational Health & Safety Management System
Technical Specification



ISO 9001:2000
ISO 14001:2400
ISO 18001
ISO/TS 16949

SAFETY PERFORMANCE BEAUTY AND REPUTATION

CERTIFICATION Inherent flame retardant yarns and fabrics produced by the Alpha Group of Companies in Thailand are sold with the brand FR SPECTRUM which is a registered trademark.

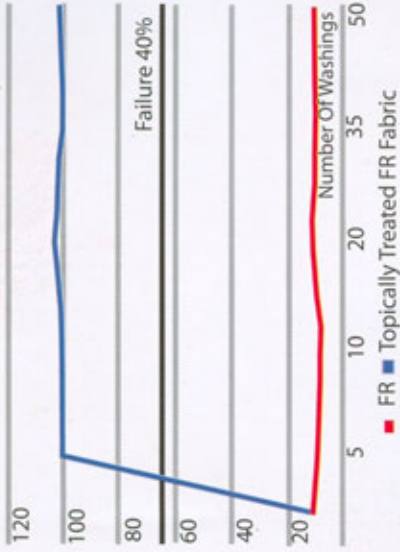
HOW IT WORKS The flame resistant fiber is produced using a modified polyester polymer, which incorporates a proprietary FR additive into the molecular chain. This results in a lower melting point that makes it difficult for combustion to occur, as the fiber/fabric shrinks away from the flame and melts. The phosphorus component prevents melting drips from occurring and prevents further burning by self extinguishing. The FR polymer contains no brominated compounds.



Sustainability Awards
Alpha received 3 Thailand Energy Awards
from Energy Ministry of Thailand

- Best Leadership 2006
- Best Environmental & Energy Conservation management 2006
- Best Corporation 2007

Permanent Protection That Won't Wash Out



Multiple washings do not affect FR SPECTRUM's performance. Topically treated fabrics may pass the FR test initially, but often fails after laundering due to breakdown of the surface treatment. FR SPECTRUM is unaffected by multiple washings and retains its excellent FR performance.

**SAFETY
PERFORMANCE
BEAUTY AND REPUTATION**

HOSPITALITY Draperies, Bedcovers and Upholstery
HEALTH CARE Cubicle Curtains, Draperies, Upholstery and Bedding
CRUISE Draperies, Bedcovers & Upholstery
GOVERNMENT College Dormitories, Courtrooms, Prison & Military end uses
PUBLIC TRANSPORTATION Buses, Trains and Airplanes
INDUSTRIAL Applications where flame resistance is important in acoustic, thermal insulation or filtration media



SPECTRUM
Inherent Flame Retardant Fabrics by Alpha