



FLAME GUARDIAN® SERIES FGR-128 FLAME RETARDANT

Description	FGR-128 flame retardant is an inorganic non-halogen blend comprised of a synergistic blend of phosphor and nitrogen sources.	
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Applications	FGR-128 flame retardant provides superior fire resistance when applied to textiles and uncoated plywood.	
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Benefits and Features	FGR-128's synergistic blend allows for low add-on amounts while maintaining effectiveness. FGR-128 provides aggressive char formation in cellulosics and synthetics with a glassy layer formed during burning to prevent flame spread. Water soluble for easy clean up.	
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Typical Properties	Appearance	Clear
	PH	6.4 – 6.8
	Thermal Decomposition after dry	160 C

Usage Level	Add-on level of FGR-128 flame retardant varies depending on the structure and weight of the material. Application may vary from 5% to 20% finished dry add-on weight. To achieve best properties and maintain hand and appearance on thin, lightweight, or delicate textiles, FGR-128 may be diluted. FGR-128 flame retardant may be applied to the material or textile by pad, spray, or brush. A wetting agent is part of the mixture as provided, allowing for rapid penetration and minimal application to reach proper add-on levels. Denser materials may require longer dwell times.	
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Flammability Tests	FGR-128 has met been tested to the following: NFPA 701: cotton, linen, polyester, nylon, poly/cotton blend, silk, wool, raffia, thatching, jute, corrugated cardboard, paper. ASTM E-84 Class A: ¾" plywood Inquire about additional tests and materials not listed.	
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Shipping Information	Non-hazardous material per DOT	
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Responsible Care	Turning Star, Inc. is committed to the safety and well-being of our customers, employees and the community. Refer to the safety data sheet for specific safety, handling, and hazards information.	
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The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Turning Star, Inc. It is the responsibility of the users to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patents.

FIRE RETARDANT PRODUCTS • MANUFACTURING • APPLICATION

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