



FLAMEXX SERIES CLS-12 FLAME RETARDANT

Trade Names	CLS-12, CLS12	
Description	CLS-12 flame retardant is a high purity water-soluble non-halogen flame retardant comprised of a synergistic blend of phosphor and sulfur.	
Applications	CLS-12 flame retardant provides superior fire resistance when applied directly to unsealed wood and lumber. Flamexx CLS-12 can also be used on corrugated cardboard, cellulosic insulation, and other cellulose products. For lumber, 2 coats are required with 20 minute intervals between coats.	
Benefits and Features	CLS-12 flame retardant bonds directly with the cellulose, and provides excellent charring when subjected to fire. The chemical structure of CLS-12 opens the cellulose fibers to rapidly absorb the fire retardant.	
Typical Properties	Appearance	Pale Straw Liquid
	PH	6.2 – 7.4
	Thermal Decomposition after dry	165 C
Usage Level	Add-on level of CLS-12 flame retardant varies depending on the structure and weight of the material. Application may vary from 6% to 20% finished dry add-on weight.	
	CLS-12 flame retardant may be applied to the material or textile by pad, spray, or brush. A wetting agent is not recommended in most cases.	
Shipping Information	Non-hazardous material per DOT	
	Available in 55 gallon drums or 5 gallon pails	
Responsible Care	Turning Star, Inc. is committed to the safety and well-being of our customers, employees and the community. Refer to the material safety data sheet for specific safety, handling, and toxicity information.	

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