DATA SHEET

ALC HP-51

ALC HP-51 is a flame retardant for cellulosic textiles that can be made durable/semi-durable to laundering and dry cleaning when used in conjunction with common pad/dry/cure durable press chemistries.

ALC HP-51 is a flame retardant for textiles of cellulosic fibers. It imparts properties that are durable to multiple launderings, and can provide treated fabrics with minimal strength loss and desirable soft hand.

ALC HP-51 is a high percent phosphorus, water soluble, hydroxyl-functional oligomeric phosphate/phosphonate ester for cotton textile applications. It is suggested as an efficient flame retardant for incorporation into aqueous finishing systems for cotton fabrics.

Chemical Name: Oligomeric Phosphate/Phosphonate Ester

PRODUCT SPECIFICATIONS

Appearance @ 25C	Liquid
Clarity @ 25C	Clear
Color, Gardner	Record
Non Volatiles	min 76.0
Specific Gravity @ 20C	1.2500 – 1.2700
Viscosity @ 25C, cps	200 – 500
Acid Value, mg KOH/g	max 1.70
Moisture, %	max 1.00

SUGGESSTED USE

ALC HP-51 has been developed to be a durable/semi-durable phosphorus-based flame retardant finishing system for woven, knit and nonwoven cellulosic fabrics. When used in combination with common durable press crosslinking resins (e.g., glyoxal and /or melamine-based), **ALC HP-51** provides a chemically bound reaction product that can withstand multiple launderings. Depending on the binding resin utilized, the flame retardant treatment can have minimal effect on fabric physicals (e.g., strength retention and hand), little if any effect on the fabric dye shade, no odor, and contain zero formaldehyde. Applicable finishing systems employ commonly available inexpensive durable press (DP) application chemicals.

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