

TECHNICAL BULLETIN

ULTERION QUENCH™ PLD

FLAME RETARDANT

PERFORMANCE FEATURES

- High phosphorus content
- Durable to polyester & cotton
- Water soluble

Product Description

Quench™ PLD Flame Retardant is recommended as a durable non-halogen flame retardant for polyester and durable to semi-durable flame retardant for cellulose* fibers.

*Durable to semi-durable flame retardant for cellulose fibers is achieved by formulations of Interrupt 3 with common durable press cross-linking resins such as glyoxal or melamine. Physical effects are dependant on type and ratios used of the cross-linking resin.

Application Methods

Coatings

- Can be used with water based latex systems
- 10-15% of latex formula is typical level of use
- Can be cross linked with melamine powder or used with many latex formulating materials such as acrylic and urethane thickeners
- Used to meet MVSS-302 and NFPA 701 Flammability Test Protocols

Fabric Finishing

- Can be added to Fabric using conventional textile finishing methods
- 1.0-2.0% (3-6% Topical) Fixation recommended on weight of fabric
- Cold water rinse restores hand
- Fixation Temperatures are 330°-400°F @ dwell time of 30-45 seconds
- Used to meet NFPA 701 and DOC FF 3-71

MARKET USES

- Textiles
- Non-wovens
- Back-coatings

Typical Properties

Appearance	Clear Yellow Liquid
Color, Gardner	4.0 max
Water Content, %	0.1 max
Phosphorus (as P), %	19.5 – 21.0
Specific Gravity, 25°C	1.26 – 1.28
Acid Number, mgKOH/g	2.0 max
Hydroxyl Value, mgKOH/g	100 – 140
Viscosity, cPs	6000
Origin	USA

Handling/Storage Stability

Quench™ PLD should be stored in a dry, cool, dark area, between 20°C and 35°C to insure maximum shelf life. For best results, this dispersion should be used within one year.

Product Safety

When considering the use of **Ulterion International** products, please refer to the latest Material Safety Data Sheets (MSDS). If you require an MSDS for this product; please call (706) 654-2222 or your **Ulterion International Representative**.

Ulterion International, LLC.
P.O. Box 236
Braselton, GA 30517
Phone: 706-654-2222
Fax: 706-654-2234
www.ulterion.com



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