



The Non-halogenated Flame Retardant Handbook

By Alexander B. Morgan, Charles A. Wilkie



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Due to the emphasis on replacing halogenated flame retardants with alternate technologies, this handbook contains in one place all of the current commercial non-halogenated flame retardant technologies, as well as experimental systems near commercialization.

This book focuses on non-halogenated flame retardants in a holistic but practical manner. It starts with an overview of the regulations and customer perceptions driving non-halogenated flame retardant selection over older halogenated technologies. It then moves into separate chapters covering the known major classes of non-halogenated flame retardants. These chapters are written by known experts in those specific chemistries who are also industrial experts in how to apply that technology to polymers for fire safety needs. The handbook concludes with some of the newer technologies in place that are either niche performers or may be commercial in the near future. Future trends in flame retardancy are also discussed.

The *Non-Halogenated Flame Retardant Handbook* book takes a practical approach to addressing the narrow subject of non-halogenated flame retardancy. This includes more emphasis on flame retardant selection for specific plastics, practical considerations in flame retardant material design, and what the strengths and limits of these various technologies are. Previous flame retardant material science books have covered non-halogenated flame retardants, but they focus more on how they work rather than how to use them.



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Editorial Review

From the Back Cover

A one-stop, practical handbook containing all of the current commercial non-halogenated flame retardant technologies as well as experimental systems near commercialization

In response to the emphasis on replacing halogenated flame retardants with alternate technologies, this handbook focuses on existing non-halogenated flame retardants and the experimental close-to-production systems that are available today.

The *Non-Halogenated Flame Retardant Handbook* starts with an overview of the regulations and customer perceptions driving non-halogenated flame retardant selections over older halogenated technologies. It then moves on to cover the known major classes of non-halogenated flame retardants, before concluding with the current niche-performing technologies and untried commercial contenders of the future.

The Non-Halogenated Flame Retardant Handbook:

- Takes a practical approach to addressing the narrow subject of non-halogenated flame retardancy—placing more emphasis on flame retardant selection for specific plastics, practical considerations in flame retardant material design, and the various technologies' strengths and limits
- Focuses on the proper use of non-halogenated flame retardants, rather than the mechanics of how they work
- Discusses important future trends in flame retardancy
- Features sections written by industrial and chemical experts who know how to apply the technology to polymers for fire safety needs

Readership

Materials scientists, industrial chemists, fire safety engineers, design engineers, and electrical engineers.

About the Author

ALEXANDER B. MORGAN has over seventeen years of experience in the areas of materials flammability, polymeric material flame retardancy, fire science, fire testing, and fire safety engineering with an emphasis on chemical structure property relationships and fire safe material design. He has helped academic, government, and industrial customers solve their flame retardant and fire safety needs in a wide range of applications. Dr. Morgan is on the editorial review boards for two fire safety journals (*Fire and Materials*, *Journal of Fire Science*), and is a member of ASTM, Sigma Xi, International Association of Fire Safety Scientists, and the American Chemical Society.

CHARLES A. WILKIE is currently Professor Emeritus at Marquette University. When he retired in 2009 he held the position of Pfléttinger-Habberman Chair of Chemistry. He has worked for more than thirty-five years in fire retardancy of polymers—covering many different areas of fire retardancy, including intumescence, nanocomposites, mineral hydrates, and phosphorus chemistry. He serves on the editorial boards of *Polymer Degradation and Stability*, *Thermochimica Acta*, *Journal of Fire Sciences*, *Fire Safety*

Journal, and is an Editor of *Polymers for Advanced Technologies*.

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