

LEADER IN FIRE RETARDANT RESIN



FlameGuard

We Safeguard Your Investment



FlameGuard offers one of the world's most comprehensive portfolio of fire retardant polymer solutions, formulated to meet the specific needs of the global composite industry.

Regarded as the new market leader in the development of fire retardant polymer solutions, the company has an aggressive commitment to technological innovation and product development. Our extensive line of products include fire retardant orthophathalic, isophathalic, vinyl ester (bisphenol A and Novalac) and epoxy resins.

FlameGuard fire retardant resins are tested under the following:

- British Standard 476 Part 6 and 7
- ASTM E84
- Underwriters Laboratory UL-94

Fire is often the cause of destruction of personal property and investment. Flameguard fire retardant resin make products safer by blocking the starting and fuelling a fire. They are used in industries including marine, transport, oil and gas, building and construction, daily products, chemical and corrosive environment.....etc.

Demanding applications, increasingly tougher safety standards, and the need for economically and ecologically balanced solutions makes your choice of fire retardant resins ever more pressing. The expansion of the FlameGuard resin family reflects our understanding that fire retardant product fabrication involves complex issues that are best addressed with a range of resin options. We make sure we can offer the chemistry that best meets your requirements.

FlameGuard is regarded as the new market and technology leader in the development of Fire retardant resins for the composite industry. Our proprietary technology creates products that are cleaner, easier and safer to handle.



FLAMEGUARD PRODUCT SELECTION GUIDE

Select the correct resin type for the correct application. The various types of resins are tested under different standards widely recognized around the globe. Contact WTT or your local distributor for more information.

Orthophthalic Resin

Product	Colour	Test Standard	Rating	Application
K133-A1	White	British Standard	Achieves Class "0" under BS 476	Used as a final FR coating for all kinds of products including composite, plastics, wood, steel, concreteetc
K133-A	White	British Standard	Achieves Class "1" under BS 476 Part 7	Widely used in transportation and marine parts. Ideal for use in building interior, decorative products and other composite product including boats and canoes, bath tubs, water and storage tanks, cooling towers, plant and flower pots, bath unit, models, containers, dustbins, safety helmets, water pipes, car body, sporting equipment, concrete framings, chairs and tables, and other household articles.
2597PT-FR-26	White	British Standard	Achieves Class "2" under BS 476 Part 7	
A4100-A	White	ASTM	Achieves Class "1" under ASTM E-84	
A4200-A	White	ASTM	Achieves Class "2" under ASTM E-84	
U8100-A	White	Underwriters Laboratory	Achieves "HB" rating under UL-94	
2597PT-FR-26	White	Underwriters Laboratory	Achieves "V-0" rating under UL-94	

Isophthalic Resin*

Product	Colour	Test Standard	Rating	Application
K150-A	White	British Standard	Achieves Class "1" under BS 476 Part 7	Provides chemical resistance against mild chemicals. Ideal for use in chemical tanks, septic tanks, covers, scrubbers, air duct, oil and petroleum pipes,etc. Widely used in the manufacturing of critical parts in the transportation and marine industry.
209PT-FR-26	White	British Standard	Achieves Class "2" under BS 476 Part 7	
A5100-A	White	ASTM	Achieves Class "1" under ASTM E-84	
A5200-A	White	ASTM	Achieves Class "2" under ASTM E-84	
U8310-A	White	Underwriters Laboratory	Achieves "HB" rating under UL-94	
U8320-A	White	Underwriters Laboratory	Achieves "V-0" rating under UL-94	

Bisphenol A Vinyl Ester Resin*

Product	Colour	Test Standard	Rating	Application
K180-A	White	British Standard	Achieves Class "1" under BS 476 Part 7	Provides chemical resistance against strong chemicals. Ideal for use in chemical tanks, septic tanks, covers, scrubbers, air duct, vessels, oil and petroleum pipes, on-site installation and maintenance projects particularly in the chemicals, paper and pulp and oil and gas industries.....etc. Widely used in the manufacturing of critical parts in the transportation and marine industry.
7121-FR	White	British Standard	Achieves Class "2" under BS 476 Part 7	
A6100-A	White	ASTM	Achieves Class "1" under ASTM E-84	
A6200-A	White	ASTM	Achieves Class "2" under ASTM E-84	
U8510-A	White	Underwriters Laboratory	Achieves "HB" rating under UL-94	
U8520-A	White	Underwriters Laboratory	Achieves "V-0" rating under UL-94	

Novalac Vinyl Ester Resin*

Product	Colour	Test Standard	Rating	Application
K300-A	White	British Standard	Achieves Class "1" under BS 476 Part 7	Provides excellent chemical resistance against strong chemicals. Suitable for applications such as high temperature chlorination or caustic scrubbing and storage, industrial waste facilities and solvent/extraction processes. Used in hydrochloric acid transport, tank, truck and railcar linings and gasohol storage. Ideal for use in chemical tanks, septic tanks, covers, scrubbers, air duct, vessels, oil and petroleum pipes, on-site installation and maintenance projects particularly in the chemicals, paper and pulp and oil and gas industries.....etc.
K250-A	White	British Standard	Achieves Class "2" under BS 476 Part 7	
A7100-A	White	ASTM	Achieves Class "1" under ASTM E-84	
A7200-A	White	ASTM	Achieves Class "2" under ASTM E-84	
U8710-A	White	Underwriters Laboratory	Achieves "HB" rating under UL-94	
U8720-A	White	Underwriters Laboratory	Achieves "V-0" rating under UL-94	

Epoxy System

Product	Colour	Test Standard	Rating	Application
K-100	White / Black	British Standard	Achieves Class "0" under BS 476 Part 7	Used as a final coating for epoxy based products. Can also be used to create FR epoxy laminate

Gelcoat*

Product	Colour	Resin Type	Test Standard	Rating
GS-5200-4-FR	Clear	Orthophthalic	British Standard	Achieves Class "2" under BS 476 Part 7
GS-5200-8-FR	Clear	Isophthalic	British Standard	Achieves Class "2" under BS 476 Part 7
GS-5200-12-FR	Transparent Green	Bisphenol A Vinyl Ester	British Standard	Achieves Class "2" under BS 476 Part 7
GS-5200-16-FR	Transparent Green	Novalac A Vinyl Ester	British Standard	Achieves Class "2" under BS 476 Part 7

* Chemical Corrosion Resistance Chart available upon request

WTT offers worldwide availability of FlameGuard resins through its network of distributors. Please contact WTT for FlameGuard resins that meet your corrosion resistant specifications and put the technology and service of our Team to work for you.

FlameGuard History

FlameGuard is a division of Wee Tee Tong Chemicals, headquartered in Singapore, with executive offices in Malaysia and China. Wee Tee Tong is a global company comprising of several divisions, namely chemicals, palm oil, palm oil mill, property and construction.

WTT Chemicals focuses on the development and sales of fibreglass and composite materials that enhance the quality and performance of today's products. Our integrated network sales and distribution and committed production, research and technical service facilities serve customers around the world.

We have a commitment

...to Operational and Distribution Excellence

WTT is committed to maintaining the highest standards of excellence and continuous research and development in everything that we do. We have developed and implemented best practices throughout our organization to achieve high product quality, manufacturing productivity and customer satisfaction.

...to Service

We recognize that our customers require quality service to develop and secure projects around the world. That's why all our sales engineers are trained to you with the highest standard of technical competence and advise.

...to Product Innovation

Market driven, new product development is a priority within WTT. We focus on moving new products quickly from concept to commercialization. With a broad expertise in composite technologies, our development focuses on market requirements aiming at expanding our portfolio of flame retardant resins.

WTT offers a wide range of composite materials.

Access www.weeteetong.com for a wealth of information on our products and where they can be used.

Contact your nearest sales representative or WTT for any enquiry.



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