

Flame Retardant Testing

Driving quality, safety and sustainability for every consumer

What are Flame Retardants?

Flame retardants refer to a variety of substances that are added to combustible products, such as upholstered furniture, electronics, juvenile products, and furnishings to inhibit or resist the spread of fire.

In recent years, researchers have found that certain flame retardants persist in the environment and accumulate over time in humans and animals, leading to adverse health effects such as cancer, reproductive toxicity, and effects on the immune system.

For these reasons, many countries, including the U.S. and European countries, requires manufacturers of consumer goods to comply with various regulations to ensure that their products are free of hazardous flame retardants before they are placed on the market.

Our Solutions

Our global network of analytical testing facilities and expertise allows us to identify and determine which flame retardants (FR) need to be tested to meet applicable regulations and standards, as well as any retailer requirements depending on the product's market destination.

Eurofins | MTS conducts an in-house developed testing method called Smart Chemical Compliance Testing (SCCT) to efficiently and accurately detect and quantify the levels of FR compounds in consumer products. Based on a GC/MS screening method integrated with an AI machine learning chemical data analysis system,

SCCT can detect more than 400 globally restricted substances in a single analysis without the need to test chemicals individually.

As a result, SCCT provides a cost-effective and proactive solution for monitoring restricted substances and flame retardants. With SCCT, you can save up to 70% on testing costs and prevent unwanted or excessive levels of flame retardants in your products and along the supply chain.

Using SCCT, we identify and analyze globally restricted substances as well as flame retardants in your products to help you meet the requirements of the following regulations:

- **EU REACH Regulation**
- **EU RoHS Directive**
- **EU POPs Regulation**
- **EU EN 71-9**
- **CA Prop 65**
- **US State Bills**
- **China GB/T 18885**
- **IEC non-halogenated requirements**
- **And more!**

Scan the QR code to watch a video explaining Smart Chemical Compliance Testing (SCCT)




Get in touch today for more information!

 www.mts-global.com

 enquiry@mts-global.com

 Modern Testing Services

 Subscribe to our Newsletter!

Flame Retardants (FR) - Details of state bans

Deciding which flame retardants to test depends on the type of product, market destination, and the applicable standards and regulations. In the U.S., there are several jurisdictions that regulate flame retardants in consumer products, and the scope of regulated flame retardants and products varies from jurisdiction to jurisdiction.

State	Reference	Type of Product	Type of FRs	Concentration
California	<i>Assembly Bill 2998</i>	Children's products, mattresses, and upholstered furniture	All FRs	1,000 ppm
Hawaii	<i>HB 2013</i>	All products	octa-BDE, Penta-BDE	0.1% (1,000 ppm)
Illinois	<i>HB 2572</i>	All products	octa-BDE, Penta-BDE	0.1% (1,000 ppm)
Maine	<i>H.P. 1312 - L.D. 1790</i>	All products	octa-BDE, Penta-BDE	0.1% (1,000 ppm)
	<i>H.P. 138 - L.D. 182</i>	Residential upholstered furniture	All FRs	0.1% (1,000 ppm)
Maryland	<i>HB 83</i>	All new products	penta-BDE, octa-BDE	0.1% (1,000 ppm)
	<i>HB 99 and HB 299</i>	Products for children less than 3 years old	TCEP, TDCPP	0.1% (1,000 ppm)
Massachusetts	<i>H4900</i>	Children's products, bedding, carpeting, residential upholstered furniture, window treatments	antimony trioxide, chlorinated paraffins, HBCD, TCEP, TCPP, TDCPP, TBPH, TBB, TBBPA, octa-BDE, penta-BDE	0.1% (1,000 ppm)
Michigan	<i>HB 4406</i>	All products	penta-BDE	0.1% (1,000 ppm)
Minnesota	<i>SF 2096</i>	All products	octa-BDE, penta-BDE	0.1% (1,000 ppm)
	<i>SF 1215</i>	Children's products and residential upholstered furniture	deca-BDE, HBCD, TDCPP, TCEP	1,000 ppm
New Hampshire	<i>SB193</i>	Mattresses and upholstered furniture	All FRs	0.1% (1,000 ppm)
New York	<i>S07621</i>	All products	octa-BDE, penta-BDE	0.1% (1,000 ppm)
	<i>SB 962, SB 596</i>	Products for children 3 or under	TDCPP, TCEP	Not specified
Oregon	<i>H5082</i>	All products	deca-BDE, octa-BDE, penta-BDE	0.1% (1,000 ppm)
Rhode Island	<i>S81</i>	Residential upholstered bedding and furniture	Organohalogen FRs	100 ppm
Vermont	<i>S81</i>	All products	octa-BDE, penta-BDE	0.1% (1,000 ppm)
	<i>S81</i>	Mattresses, upholstered furniture, plastic housing for TVs and computers, plastic shipping pallets	deca-BDE	0.1% (1,000 ppm)
	<i>House Bill 2545</i>	Children's products	TCEP, TDCPP	0.1% (1,000 ppm)
Washington	<i>B21-0143</i>	Children's products and residential upholstered furniture	deca-BDE, HBCD, TDCPP, TCEP, Additive TBBPA	1,000 ppm
Washington D.C.	<i>B21-0143</i>	All products	TCEP, TDCPP	0.1% (1,000 ppm)
	<i>B21-0143</i>	Children's products and residential upholstered furniture	TCEP, TDCPP	0.1% (1,000 ppm)



Modern Testing Services

EUROPE & AMERICAS

France | Aix-en-Provence

Germany | Augsburg

Germany | Wilsum

Italy | Como

Spain | Alicante

Turkey | Istanbul

United Kingdom | Leeds

United Kingdom | Northampton

United States | Boston

United States | Seattle

ASIA

Bangladesh | Dhaka

Cambodia | Phnom Penh

China | Hangzhou

China | Hong Kong

China | Dongguan

China | Shanghai

China | Shenzhen

China | Qingdao

China | Xiamen

India | Bangalore

India | New Delhi

India | Noida

India | Tirupur

Indonesia | Jakarta

Pakistan | Lahore

South Korea | Seoul

Sri Lanka | Wattala

Thailand | Bangkok

Vietnam | Ho Chi Minh City

 www.mts-global.com

 enquiry@mts-global.com