



Candles & Candle Holders

Product safety & compliance

Besides the common use of these products for decoration purposes, there are no seasonal celebrations and festivals without candles. From birthday cakes to dinner parties, candles add a warm glow, ensuring the success of any celebration.

However, candles and related products are well-known to pose a serious risk of fire, burn injuries and toxic adverse effects.

Stringent regulations and demanding consumers

While the number of candle-related fires have been decreasing, there are still far too many. It is important to minimise risk and ensure that products meet the quality and performance expectations of consumers, while putting a special emphasis on all safety concerns.

Regulatory changes and demands for proofs of safety and quality requirements put candle product manufacturers under pressure to adhere to updated market requirements. As part of a commitment to product quality, safety and responsibility, regulations and standards have been implemented in different regions to ensure safe and sustainable production.

Some relevant examples:

- EN 15493: Specifications for fire safety of candles intended to be burned indoors, are to ensure a reasonable degree of safety during use and to minimise inappropriate use during the burning of a candle.

- EN 15494: Product Safety Labels. Labelling check (on candle or on its packaging) to verify the presence of the required warning symbols and safety information as well as how this information is displayed.
- EN 15426: specifies requirements and test methods for evaluating the sooting behaviour of burning indoor candles
- EN 16738 and EN 16739: For the determination of Volatile Organic Compound (VOC) emissions into indoor air and for the assessment of these results
- Ignition of Candle Holder & Decorative Components (French Decree 91-1175)
- ASTM F2417 US fire safety standard for candles
- ASTM F2326 Soot emission
- ASTM F2601 Fire safety for Candle Accessories
- ASTM C 149 Thermal shock resistance of glass containers

Our wide and international service offer displayed below covers everything from tapers, votives, pillars and tealights to container / jar candles, floating candles, liturgical candles, outdoor candles, novelty candles, utility candles and birthday candles.

Service scope

Our quality assurance and performance services can help manufacturers, brand owners and retailers to ensure the quality, safety, performance and compliance with regulatory standards as well as providing confidence and reliability to consumers with home-safe products. Our comprehensive portfolio includes the following:

- Emission Testing: Undesirable substances (VOC emission: EN 16738 / 16739)
- Performance testing services to validate products' properties to ensure they meet consumers' expectations:
 - Sensory evaluation and consumer tests (olfactory intensity)
 - Physical characteristics and visual checks
 - Candle holder's temperature during combustion
 - Calculation of hourly fuel consumption

Expert services, regulatory and compliance

- Toxicological Risk Assessment
- Technical File/Document Review
- Testing programs and protocols ad-hoc
- Artwork check, labels and marking review

Laboratory testing

- Safety Testing: Burning behaviour, stability, burn time, flame height, re-ignition after extinguishing, temperatures, soot index/smoke, safety labels and warnings, resistance to thermal shock, etc.

On-site inspections and audits

Assessing manufacturing sites before initiating mass production and checking product quality prior to shipment are key parts of the quality control process, and vital to ensure that production is carried out according to the quality standards and expectations of destination markets. We offer a full suite of factory audit services, covering social, environmental, technical and security compliance.

