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SAFEGUARDS

Hardlines

SGS CONSUMER TESTING SERVICES

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NEW European Candle Standards

The European standards for safety of candles have reached the final stage for formal vote and are expected to become effective in 2008. These standards, which cover the fire safety, labeling requirement and safety of soot release, are listed below:

- EN 15493: Candles Specification For Fire Safety
- EN 15494: Candles Products Safety Labels And Warnings
- EN 15426: Candles Specification for sooting behaviour

Since the aforementioned standards will soon become mandatory, it is highly recommended that indoor candle products fulfill the safety requirements in these standards in order to comply with the General Product Safety Directive (GPSD) – 2001/95/EC ^{1.} The GPSD is a framework directive to ensure that only safe products are placed on the market. The details about the requirements are specified as below.



EN 15493: Candles - Specification For Fire Safety

This standard mainly focuses on fire safety and intends to reduce the risks of fire hazards during the use of indoor candles by assessing their stability and burning behavior. The safety requirements covered are:

Stability

No over-tipping on incline plane of 10°

• Secondary Ignition

No secondary ignition of more than 10s

• Flame Height
Tealight ≤ 30mm
Others ≤ 75mm

Flame Height



Behavior by self-extinguishing at the end of the burning process

No breakage on the container after self-extinguished

· Re-ignition after extinguishing

Glow or smoke \leq 20s and no spontaneous re-ignition after extinguishing.

EN 15494: Candles – Products Safety Labels And Warnings

This standard is aimed to improve personal safety during the use of candles by informing the user by means of adequate warnings. The requirements for safety labels of indoor candles are divided into 2 points.

• Safety Information

Safety label shall be:

- In the form of symbols or text
- Visible and legible on packaging or product (or instruction leaflets available at the point of sale)

Layout of a Product Safety Label

General Warning Sign (recommended in yellow background), and Supplementary safety information symbol

Example of Safety Label on Indoor Candles:





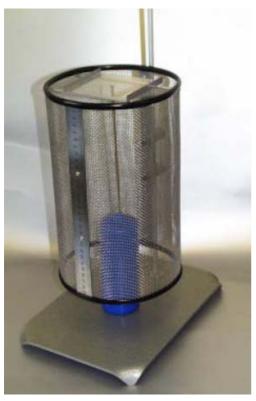






EN 15426: Candles - Specification For Sooting Behaviour

This standard aims to ensure the soot released from an indoor candle is maintained at a reasonable level by implementing requirements on their sooting behavior. This helps to ensure a reasonable degree of personal safety for normal use, thereby improving personal safety, e.g. Health.



Wire Mesh Cylinder

Candle products with a diameter up to 100mm, or an equivalent cross sectional area and using a single wick are covered by this standard. The sooting behavior is defined by soot index (S_i).

The requirements are:

- ⇒ Average S_i (Avg. of 3 test sample): < 1.0/hour</p>
- ⇒ No individual sample shall exceed 2.0/hour

Method of determining soot index:

A specific glass plate is intended to "collect" soot from candles during burning for a specific period of time inside a wire mesh cylinder. The soot index is then determined by the relationship of the illuminance between a sooted glass plate and a clean glass plate. Finally, the average soot index per hour can be determined by using the known burning period of time of the candle.

Throughout their global network of laboratories, SGS can provide a wide range of tests on candles according to European and American standards. Please contact us for additionnal information.

Please also read SafeGuards 100/07 ASTM F 2058-07—Standard specification for candle fire safety labeling updated

For enquiries:

Global Competences Support Centre, gcsc@sgs.com

HK – Nicole Li, **2** + (852) 2774 7446 or ⊠ Nicole.Li@sgs.com

UK – David Smith, **2** +44 (0) 208 991 3410 or ☑ David Smith@sgs.com

US-Piyush Shah,

+ 973 575 5252 or

Piyush.shah@sgs.com

Asia – Hong Kong Tel: +852 2334 4481 Fax: +852 2144 7001

mktg.hk@sgs.com

Australasia — Perth Tel: +61 (0) 3 9790 3418 Fax: +61 (0) 3 9701 0988

au.cts@sgs.com

Europe – London, UK Tel: +44(0) 20 8991 3410 Fax: +44 (0) 20 8991 3417

gb.cts.sales@sgs.com

Africa & Middle East – Turkey. Tel: +90 212 225 0024 Fax: +90 212 296 47 82

sgs.turkey@sgs.com

Americas – USA. Tel: +1 973 575 5252 Fax: +1 973 575 1193

Marketing.CTS.US@sgs.com

Web: www.sgs.com Global Competences Support Centre:

gcsc@sgs.com

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