

Yoke Chemicals and New Materials (Shanghai) Co., Ltd.

and its subsidiaries Shekoy Chemicals Europe and USA

Technical Data Sheet

PhireGuard EL-22

General Description and Use

PhireGuard EL-22 is a medium molecular weight flame retardant that is primarily used in flexible polyurethane foams. Its improved resistance toward hydrolysis makes it suitable for both polyester and polyether polyol-based polyurethane foams.

The other specificity of PhireGuard EL-22 lies in its high purity and extremely low content of low molecular weight by-products that are often encountered in similar flame retardants.

As a result, PhireGuard EL-22 has a very low odour and provides superior VOC performance to the polyurethane foam.

Examples of fire standards that can be met using PhireGuard EL-22 are UL 94, Cal TB 117 parts A and D, FMVSS 302. It can also be associated with a synergist (i.e. melamine) for the production of foams that meet the requirements of BS 5852 Crib 5.

Typical Properties¹⁾

Physical appearance	Pale yellow transparent liquid
Phosphorus content, wt%	6.9-7.5
Chlorine content, wt %	48-50
Density @ 25°C, kg/l	1.51
Viscosity @25°C, cPs	1500
Acid value, mgKOH/g	< 0.1
Water content, wt%	< 0.1
Colour, APHA	<60
Odour	Very mild

1) Please refer to the Certificate of Analysis for exact properties

Safety Information

Yoke Chemicals and New Materials (Shanghai) Co., Ltd. is committed to the health and safety of its customers and employees.

Avoid breathing vapour and mist. In case of direct contact with eyes or skin, rinse immediately with plenty of water and seek medical advice. In case of ingestion, rinse mouth with water and seek medical advice.

In any case wear suitable protective clothing and do consult the material safety data sheet of this product prior to utilization.

Handling and Shipping Information

Product is available in isocontainers (max. 25 t), totes (1250 l) and drums (250 l).

Product must be stored in dry, cool area away from direct sun exposure and kept away from humidity and water contamination. Handle in accordance with good professional hygiene and safety procedures. Use in well ventilated areas.

In case of spillage, use a shovel or any other appropriate tool to collect the spill and place it into a chemical waste container. Do prevent spill from entering water supplies or water courses.

Contacts

May you require any further information regarding this product or any other product commercialized by the Jiangsu Yoke Technology Corporation, please do contact one of our following facilities at your best convenience:

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